GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: August 6, 2005, 14:34:44 ; Search time 346 Seconds
(without alignments)
9387.310 Million cell updates/sec

Title: US-09-884-211B-2
Perfect score: 1985
Sequence: 1 ctaagaccgtggggaggcag.....gaaataaaaaaaaaaaaaaa 1985

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	958.2	48.3	1671	2	US-08-662-560-1	Sequence 1, Appli
2	958.2	48.3	1671	2	US-08-780-749A-5	Sequence 5, Appli
3	958.2	48.3	1671	3	US-08-870-511-5	Sequence 5, Appli
4	939	47.3	1671	3	US-08-706-281A-15	Sequence 15, Appl
5	939	47.3	1671	3	US-09-097-231-15	Sequence 15, Appl
6	939	47.3	1671	4	US-09-353-099-15	Sequence 15, Appl
7	818.8	41.2	999	4	US-09-016-434-1277	Sequence 1277, Ap
8	817.6	41.2	1030	4	US-09-831-206-1	Sequence 1, Appli
9	817.4	41.2	996	1	US-08-671-525B-7	Sequence 7, Appli
10	817.4	41.2	996	1	US-08-672-109B-7	Sequence 7, Appli
11	817.4	41.2	996	1	US-08-842-045-7	Sequence 7, Appli
12	817.4	41.2	996	2	US-08-842-238-7	Sequence 7, Appli
13	817.4	41.2	996	3	US-08-629-335B-7	Sequence 7, Appli
14	815.6	41.1	999	3	US-08-870-511-7	Sequence 7, Appli
15	815.6	41.1	999	3	US-08-870-511-9	Sequence 9, Appli
16	815.6	41.1	999	3	US-08-870-511-11	Sequence 11, Appl
17	703.6	35.4	840	4	US-09-380-419C-2	Sequence 2, Appli
18	635.2	32.0	746	4	US-09-380-419C-1	Sequence 1, Appli
19	436	22.0	1650	4	US-09-016-434-1473	Sequence 1473, Ap
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24	426.2	21.5	975	2	US-08-842-238-9	Sequence 9, Appli
25	426.2	21.5	975	3	US-08-629-335B-9	Sequence 9, Appli
26	426	21.5	978	3	US-08-706-281A-17	Sequence 17, Appl
27	426	21.5	978	3	US-09-097-231-17	Sequence 17, Appl
28	426	21.5	978	4	US-09-353-099-17	Sequence 17, Appl
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40	389	19.6	1338	2	US-08-475-637-3	Sequence 3, Appli
41	389	19.6	1338	3	US-09-191-359-3	Sequence 3, Appli
42	387.4	19.5	1338	3	US-08-706-281A-11	Sequence 11, Appl
43	387.4	19.5	1338	3	US-09-097-231-11	Sequence 11, Appl
44	387.4	19.5	1338	4	US-09-353-099-11	Sequence 11, Appl
45	308.2	15.5	1149	4	US-09-868-552-9	Sequence 9, Appli

ALIGNMENTS

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RESULT 1
US-08-662-560-1
; Sequence 1, Application US/08662560
; Patent No. 5908609
;  GENERAL INFORMATION:
;    APPLICANT:  Lee, Frank
;    APPLICANT:  Huszar, Dennis
;    APPLICANT:  Wei, Gu
;    TITLE OF INVENTION:  SCREENING METHODS FOR COMPOUNDS
;    TITLE OF INVENTION:  USEFUL IN THE REGULATION OF BODY WEIGHT
;    NUMBER OF SEQUENCES:  2
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  NY
;      COUNTRY:  USA
;      ZIP:  10036/2711
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/662,560
;      FILING DATE:  10-JUN-1996
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Coruzzi, Laura A
;      REGISTRATION NUMBER:  30,742
;      REFERENCE/DOCKET NUMBER:  7853-060
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-790-9090
;      TELEFAX:  212-869=8864
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1671 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    FEATURE:
;      NAME/KEY:  Coding Sequence
;      LOCATION:  394...1389
;      OTHER INFORMATION:
US-08-662-560-1
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Query Match 48.3%; Score 958.2; DB 2; Length 1671;
Best Local Similarity 80.2%; Pred. No. 3.1e-223;
Matches 1261; Conservative 0; Mismatches 292; Indels 20; Gaps 11;

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Qy      1341 CCTCTCATTTATGCACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGT 1400
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RESULT 2
US-08-780-749A-5
; Sequence 5, Application US/08780749A
; Patent No. 5932779
; GENERAL INFORMATION:
; APPLICANT: Lee, Frank
; APPLICANT: Huszar, Dennis
; APPLICANT: Gu, Wei
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS
; TITLE OF INVENTION: USEFUL IN THE REGULATION OF BODY WEIGHT
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036/2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/780,749A
; FILING DATE: 08-JAN-1997
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Laura A. Coruzzi
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7853-064
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090

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;      TELEFAX:  (212) 869-8864/9741
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1671 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    FEATURE:
;      NAME/KEY:  Coding Sequence
;      LOCATION:  394...1389
;      OTHER INFORMATION:
US-08-780-749A-5

  Query Match             48.3%;  Score 958.2;  DB 2;  Length 1671;
  Best Local Similarity   80.2%;  Pred. No. 3.1e-223;
  Matches 1261;  Conservative    0;  Mismatches  292;  Indels   20;  Gaps   11;

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Qy        561 GGATGCTACGAGCAACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGC 620
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Db       1228 TGCTTCATGTCTCACTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGAT 1287

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RESULT 3
US-08-870-511-5
; Sequence 5, Application US/08870511
; Patent No. 6287763
; GENERAL INFORMATION:
;  APPLICANT: Lee, Frank
;  APPLICANT: Huszar, Dennis
;  APPLICANT: Gu, Wei
;  TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
;  TITLE OF INVENTION: REGULATION OF BODY WEIGHT
;  FILE REFERENCE: 7853-083
;  CURRENT APPLICATION NUMBER: US/08/870,511
;  CURRENT FILING DATE: 1997-06-06
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
;   LENGTH: 1671
;   TYPE: DNA
;   ORGANISM: Homo sapiens
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;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (394)..(1389)
US-08-870-511-5

  Query Match             48.3%;  Score 958.2;  DB 3;  Length 1671;
  Best Local Similarity   80.2%;  Pred. No. 3.1e-223;
  Matches 1261;  Conservative    0;  Mismatches  292;  Indels   20;  Gaps   11;

Qy        144 AAAAAAGAAAAAGAAAAAAGAAAAAAAGAAAAAAAAGAAAAAGCAAAGAGCAGACTCTTT 203
              ||    | ||  |  |||     ||  | |     | ||  | ||||||||||||||||||||
Db         94 AATGCATAAGATTAAAGTTAAAGCAGAAGTGAGAACAAGAAAGCAAAGAGCAGACTCTTT 153

Qy        204 GAACTAAGAATGAGCATTTCAGAAATCGAAGATGTTACAGTGAAGGTGATCGGAGCTGTA 263
              ||||  |||||||  ||||  |||  | |||||  ||| |||||  | ||||  |||  |||
Db        154 CAACTGAGAATGAATATTTT-GAAGCCCAAGATTTTAAAGTGATGATGATTAGAGTCGTA 212

Qy        264 CCTGGAAGACAGTAAGAGCTCCACTGCCAGCCTTTTGGAGCACGGGACAGGTACTCAACA 323
              |||  ||||  |  |||  |  |||||    | |||    |   |   |  | ||||  ||||| |||
Db        213 CCTAAAAGAGACTAAAAACTCCATGTCAAGC---TCTGGACTTGTGACATTTACTC-ACA 268

Qy        324 CCTGGCAGGCCAGCTGGATCCTCAGAACTTTGGGACGCACGGAGAGGGGGAGAACATCAC 383
              | ||||  |  ||  |  | |||||  ||||||  |||  |   |||  ||||  | || ||
Db        269 GCAGGCATGGCAATTTTAGCCTCACAACTTTCAGACAGATAAAGACTTGGAGGAAATAAC 328

Qy        384 CG---GGGCTCCCTGGCTGGAGAGGCCGAATCAGTCCCGAGGGGGTCTGCATACACTTGT 440
              |    | |||||||  |     ||||    |||||  | |  |||    |||  |  |   ||   |
Db        329 TGAGACGACTCCCTGACCCAGGAGGTTAAATCAATTCAGGGGGACACTGGA-ATTCTCCT 387

Qy        441 TGCAGGATGAACTCCACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGC 500
              |||  |||      |  ||   ||  |  ||  |||||||||||||  |||  ||||||||||
Db        388 GCCAGCATGGTGAACTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGC 447

Qy        501 AGCACCTACGGACAGCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGG 560
              ||||  |||  |||  ||||  ||||  ||||  ||||||||||  |||||||||  |  ||  ||
Db        448 AGCAGTTACAGACTGCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGA 507

Qy        561 GGATGCTACGAGCAACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGC 620
              ||  ||||||||||||||  ||  |||||  ||  ||||||||  ||||||||||  |||||  |||
Db        508 GGGTGCTACGAGCAACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTCATCAGC 567

Qy        621 TTGCTGGAGAACATTCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCACCC 680
              |||  |||||||  ||   |  |||||  ||||||||||||||||||||||||||||  ||||||
Db        568 TTGTTGGAGAATATCTTAGTGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCC 627

Qy        681 ATGTACTTTTTCATCTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGG 740
              ||||||||||||||||  |||  ||||||||||  ||||||||||||||||||||  ||  ||
Db        628 ATGTACTTTTTCATCTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGA 687

Qy        741 TCAGAGACCATCGTCATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTCACG 800
              |||||  |||||  ||||||||||  ||  ||||||||  ||||||||  ||  ||||||||||
Db        688 TCAGAAACCATTATCATCACCCTATTAAACAGTACAGATACGGATGCACAGAGTTTCACA 747

Qy        801 GTGAATATTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGC 860
              ||||||||||||||||||||||||||||||||||||||||||||||||||  ||  ||||||
Db        748 GTGAATATTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGC 807

Qy        861 AGCCTGCTCTCAATTGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCAT 920
              ||||||||  ||||||||||||||||||||||||||||||||  |||||  ||||||||||||
Db        808 AGCCTGCTTTCAATTGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCAT 867

Qy        921 AACATCATGACGGTGAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGCACG 980
              |||||  |||||  ||  |  ||||||||||||||  |||  |||||  ||||||||  |||||||||
Db        868 AACATTATGACAGTTAAGCGGGTTGGGATCAGCATAAGTTGTATCTGGGCAGCTTGCACG 927

Qy        981 GTGTCAGGCATCTTGTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATC 1040
              ||  ||||||||  ||||||||||||||||||  ||  ||||  ||||||||||||||||||||
Db        928 GTTTCAGGCATTTTGTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATC 987

Qy       1041 ACCATGTTCTTCACCATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATG 1100
              ||||||||||||||||||||  ||||||||||||||||  ||||||||||||||  |||
Db        988 ACCATGTTCTTCACCATGCTGGCTCTCATGGCTTCTCTCTATGTCCACATGTTCCTGATG 1047

Qy       1101 GCCAGACTGCACATCAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCCAAGGG 1160
              |||||  ||  |||||  |||||  ||  ||  ||||||||  |||||  ||  ||||||||||||||
Db       1048 GCCAGGCTTCACATTAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCCAAGGT 1107

Qy       1161 GCCAACATGAAGGGTGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGG 1220
              |||||  |||||||||  ||  ||||||||||||||  ||  |||||  |||||  ||  |||||||||
Db       1108 GCCAATATGAAGGGAGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTGCTGG 1167

Qy       1221 GCTCCATTCTTCCTCCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTG 1280
              ||  ||||||||||||||||  ||||||||||||||||||||  ||||||||||  ||||||
Db       1168 GCCCCATTCTTCCTCCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATTGTGTG 1227

Qy       1281 TGCTTCATGTCTCACTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGAC 1340
              ||||||||||||||||||||||||||  |||||  ||||||||||||||  ||  ||||||||
Db       1228 TGCTTCATGTCTCACTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGAT 1287

Qy       1341 CCTCTCATTTATGCACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGT 1400
              |||||  ||||||||||||||||||  |||||  ||||||||||||||||||||||||||||||
Db       1288 CCTCTGATTTATGCACTCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTGT 1347

Qy       1401 TGCTATCCTCTGGGTGGCCTTTGTGACTTGTCTAGCAGATACTAGCTGGGGACAGAGGAA 1460
              ||||||||  |||||  ||||||||||||||||||||||||||  ||  ||||||||||  |
Db       1348 TGCTATCCCCTGGGAGGCCTTTGTGACTTGTCTAGCAGATATTAAATGGGGACAGAGCAC 1407

Qy       1461 GTACTAAA--AACATGCACCAGAGACTTCTTCATCCTCACACAACATGAACTGTGTGCTT 1518
              | | ||  |  ||||||||  ||||||||  ||||  ||  ||  |  ||  ||||  |||  |||
Db       1408 GCAATATAGGAACATGCATAAGAGACTTTTTCACTCTTACCCTACCTGAATATTGTACTT 1467

Qy       1519 GGACAACAGCTGCTTCTTCAGTATAAGGCAGGAGTTGAGAATATCTGTTGCACAAATTCA 1578
                 ||||||||  |||||  ||  ||  ||  |  ||||||  ||||  |||  |||||  |
Db       1468 CTGCAACAGCTTTCTCTTCCGTGTAGGGTACTGGTTGAG-ATATCCATTGTGTAAATTTA 1526

Qy       1579 ACTTTATGATGTTTTGATGTGAAAAAAAAAATGCCCAGGCTCTGTA-CATTGCTAATGTC 1637
              |   ||||||  |||          | ||||||||||||  |||||||  |||  | ||||||
Db       1527 AGCCTATGATTTTT-----AATGAGAAAAAATGCCCAGTCTCTGTATTATTTCCAATGTC 1581

Qy       1638 ATGCTAC-TTTTGGGCTGTGCATTGTTAATCCAT-TTCGACGCTGTAGACACTTTGAATT 1695
              |||||||  ||||  |||  |  | |  |||||  ||  ||  |  |  |||||  ||||  ||  |||
Db       1582 ATGCTACTTTTTTGGCCATAAAATATGAATCTATGTTATAGGTTGTAGGCACTGTGGATT 1641

Qy       1696 TCTAGAAAAGAAA 1708
              |  |  |||  |||
Db       1642 TACAAAAAGAAAA 1654


RESULT 4
US-08-706-281A-15
; Sequence 15, Application US/08706281A
; Patent No. 6100048
;  GENERAL INFORMATION:
;    APPLICANT:  Cone, Roger D
;    APPLICANT:  Fan, Wei
;    APPLICANT:  Boston, Bruce A
;    APPLICANT:  Kesterton, Robert A
;    APPLICANT:  Lu, Dongsi
;    APPLICANT:  Chen, Wenbiao
;    TITLE OF INVENTION:  Methods and Reagents for Discovering and
;    TITLE OF INVENTION:  Using Mammalian Melanocortin Receptor Agonists and Antagonists
;    TITLE OF INVENTION:  To Modulate Feeding Behavior in Animals
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  McDonnell Boehnen Hulbert & Berghoff
;      STREET:  300 South Wacker Drive
;      CITY:  Chicago
;      STATE:  IL
;      COUNTRY:  USA
;      ZIP:  60606
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
```

```
;      APPLICATION NUMBER:  US/08/706,281A
;      FILING DATE:  04-SEP-1996
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  No. 6100048nan, Kevin E
;      REGISTRATION NUMBER:  35,303
;      REFERENCE/DOCKET NUMBER:  96,886
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  312-913-0001
;      TELEFAX:  312-913-0002
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  15:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1671 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA to mRNA
;    FEATURE:
;      NAME/KEY:  5'UTR
;      LOCATION:  1..393
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  394..1389
;    FEATURE:
;      NAME/KEY:  3'UTR
;      LOCATION:  1390..1671
US-08-706-281A-15

  Query Match             47.3%;  Score 939;  DB 3;  Length 1671;
  Best Local Similarity   79.4%;  Pred. No. 1.5e-218;
  Matches 1249;  Conservative    0;  Mismatches  304;  Indels   20;  Gaps   11;

Qy        144 AAAAAAGAAAAAGAAAAAAGAAAAAAAGAAAAAAAAGAAAAAGCAAAGAGCAGACTCTTT 203
              ||    | || |  |||     ||  | |     | ||  | ||||||||||||||||||||
Db         94 AATGCATAAGATTAAAGTTAAAGCAGAAGTGAGAACAAGAAAGCAAAGAGCAGACTCTTT 153

Qy        204 GAACTAAGAATGAGCATTTCAGAAATCGAAGATGTTACAGTGAAGGTGATCGGAGCTGTA 263
              |||| |||||||  ||||  |||  | |||||  |||  |||| | ||||  |||  |||
Db        154 CAACTGAGAATGAATATTTT-GAAGCCCAAGATTTTAACGTGATGATGATTAGAGTCGTA 212

Qy        264 CCTGGAAGACAGTAAGAGCTCCACTGCCAGCCTTTTGGAGCACGGGACAGGTACTCAACA 323
              |||  |||| | ||| | |||||   | |||   |  |  |  | ||||  ||||| |||
Db        213 CCTAAAAGAGACTAAAAACTCCATGTCAAGC---TCTGGACTTGTGACATTTACTC-ACA 268

Qy        324 CCTGGCAGGCCAGCTGGATCCTCAGAACTTTGGGACGCACGGAGAGGGGGAGAACATCAC 383
              | |||| | ||  |  | ||||| ||||||  |||  |   |||  |||| | || ||
Db        269 GCAGGCATGGCAATTTTAGCCTCACAACTTTCAGACAGATAAAGACTTGGAGGAAATAAC 328

Qy        384 CG---GGGCTCCCTGGCTGGAGAGGCCGAATCAGTCCCGAGGGGGTCTGCATACACTTGT 440
              |    | |||||||  |     ||||   |||||  | | | |||   |||  |  ||  |
Db        329 TGAGACGACTCCCTGACCCAGGAGGTTAAATCAATTCAGGGGGACACTGGA-ATTCTCCT 387

Qy        441 TGCAGGATGAACTCCACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGC 500
              |||  |||     |  ||   ||  |  ||  ||||||||||||||  ||| ||||||||||
Db        388 GCCAGCATGGTGAACTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGC 447

Qy        501 AGCACCTACGGACAGCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGG 560
              ||||  |||  |||  ||||  ||||  ||||  ||||||||||||  ||||||||| | || ||
Db        448 AGCAGTTACAGACTGCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGA 507

Qy        561 GGATGCTACGAGCAACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGC 620
              ||  |||||||  ||||||  ||  |||||  ||  ||||||||  ||||||||||  ||  || |||
Db        508 GGGTGCTACGCGCAACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTGATCAGC 567

Qy        621 TTGCTGGAGAACATTCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCACCC 680
              |||  |||||||  ||   |  |||  ||||||||||||||||||||||||||||  ||||||
Db        568 TTGTTGGAGAATATCTTAGAGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCC 627

Qy        681 ATGTACTTTTTCATCTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGG 740
              ||||||||||||||||  |||  ||||||||||  ||||||||||||||||||||  || ||
Db        628 ATGTACTTTTTCATCTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGA 687

Qy        741 TCAGAGACCATCGTCATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTCACG 800
              |||||  |||||  ||||||||||  ||  |||  ||||  ||||||||  ||  ||||||||||
Db        688 TCAGAAACCATTATCATCACCCTATTAAACCGTACAGATACGGATGCACAGAGTTTCACA 747

Qy        801 GTGAATATTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGC 860
              ||||||||||||||||||||||||||||||||||||||||||||||||||  ||  ||||||
Db        748 GTGAATATTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGC 807

Qy        861 AGCCTGCTCTCAATTGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCAT 920
              ||||||||  |||||||||||||||||||||||||||||||||  |||||  ||||||||||||
Db        808 AGCCTGCTTTCAATTGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCAT 867

Qy        921 AACATCATGACGGTGAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGCACG 980
              |||||  |||||  ||  |  ||||||||||||||  |||  |||||  ||||||||  |||||||
Db        868 AACATTATGACAGTTAAGCGGGTTGGGATCAGCATAAGTTGTATCTGGGCAGCTTGCACG 927

Qy        981 GTGTCAGGCATCTTGTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATC 1040
              ||  |||||  ||  ||||||||||||||||  ||  ||||  ||||||||||||||||||||||
Db        928 GTTTCAGGTATTTTGTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATC 987

Qy       1041 ACCATGTTCTTCACCATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATG 1100
              ||||||||||||||||||||||  ||||||||||||||||  ||||||  |||||||  |||
Db        988 ACCATGTTCTTCACCATGCTGGCTCTCATGGCTTCTCTCTATGTCCACCTGTTCCTGATG 1047

Qy       1101 GCCAGACTGCACATCAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCCAAGGG 1160
              |||||  ||  |||||  |||||  ||  ||  ||||||||  |||||  ||  |||||||||||
Db       1048 GCCAGGCTTCACATTAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCCAAGGT 1107

Qy       1161 GCCAACATGAAGGGTGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGG 1220
              |||||  ||||||||  ||  ||||||||||||||  ||  |||||  |||||  ||  |||||||||
Db       1108 GCCAATATGAAGGGAGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTGCTGG 1167

Qy       1221 GCTCCATTCTTCCTCCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTG 1280
              ||  ||||||||||||||||  ||||||||||||||||||||  ||||||||||  ||||||
Db       1168 GCCCCATTCTTCCTCCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATTGTGTG 1227

Qy       1281 TGCTTCATGTCTCACTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGAC 1340
              ||||||||||||||||||||||||||||||||||  |||||  ||||||||||||||  ||||||||
Db       1228 TGCTTCATGTCTCACTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGAT 1287

Qy       1341 CCTCTCATTTATGCACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGT 1400
              |||||  ||||||||||||||||||  |||||  ||||||||||||||||||||||||||||  |
Db       1288 CCTCTGATTTATGCACTCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTCT 1347

Qy       1401 TGCTATCCTCTGGGTGGCCTTTGTGACTTGTCTAGCAGATACTAGCTGGGGACAGAGGAA 1460
              | ||||||  |||||  ||||||||||||||||||||||||||  ||  ||||||||||| |
Db       1348 TCCTATCCCCTGGGAGGCCTTTGTGACTTGTCTAGCAGATATTAAATGGGGACAGAGCAC 1407

Qy       1461 GTACTAAA--AACATGCACCAGAGACTTCTTCATCCTCACACAACATGAACTGTGTGCTT 1518
              | | ||  |  |||||  ||  ||||||||  ||||  ||  ||  |  ||||    | | |||
Db       1408 GCAATATAGGAACATCCATAAGAGACTTTTTCACTCTTACCCTACCTGAATATTCTACTT 1467

Qy       1519 GGACAACAGCTGCTTCTTCAGTATAAGGCAGGAGTTGAGAATATCTGTTGCACAAATTCA 1578
              ||||||||   |||||  ||  ||  ||  |   ||||||  |||||  |||   |||||  |
Db       1468 CTGCAACAGCTTTCTCTTCCGTGTAGGGTACTGGTTGAG-ATATCCATTGTGTAAATTTA 1526

Qy       1579 ACTTTATGATGTTTTGATGTGAAAAAAAAAATGCCCAGGCTCTGTA-CATTGCTAATGTC 1637
              |   ||||||  |||          | ||||||||||||||  |||||||  |||  | |||  ||
Db       1527 AGCCTATGATTTTT-----AATGAGAAAAAATGCCCAGTCTCTGTATTATTTCCAATCTC 1581

Qy       1638 ATGCTAC-TTTTGGGCTGTGCATTGTTAATCCAT-TTCGACGCTGTAGACACTTTGAATT 1695
              |||||||  ||||  |||  |  |  |  ||||  ||  ||  |  |  |||||  ||||  ||  |||
Db       1582 ATGCTACTTTTTTTGGCCATAAAATATGAATCTATGTTATAGGTTGTAGGCACTGTGGATT 1641

Qy       1696 TCTAGAAAAGAAA 1708
              |  |  |||  |||
Db       1642 TACAAAAAGAAAA 1654


RESULT 5
US-09-097-231-15
; Sequence 15, Application US/09097231
; Patent No. 6278038
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```
;   GENERAL INFORMATION:
;        APPLICANT: Cone, Roger D
;                   Chen, Wenbiao
;                   Low, Malcolm J
;        TITLE OF INVENTION: Mammalian Melanocortin Receptor and Uses
;        NUMBER OF SEQUENCES: 22
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
;             STREET: 300 South Wacker Drive
;             CITY: Chicago
;             STATE: Illinois
;             COUNTRY: USA
;             ZIP: 60606
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.25
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/097,231
;             FILING DATE: 12-Jun-1998
;             CLASSIFICATION: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: No. 6278038nan, Kevin E
;             REGISTRATION NUMBER: 35,303
;             REFERENCE/DOCKET NUMBER: 96,886-C
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 312-913-0001
;             TELEFAX: 312-913-0002
;             TELEX: <Unknown>
;   INFORMATION FOR SEQ ID NO: 15:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 1671 base pairs
;             TYPE: nucleic acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: cDNA to mRNA
;        FEATURE:
;             NAME/KEY:  5'UTR
;             LOCATION:  1..393
;        FEATURE:
;             NAME/KEY:  CDS
;             LOCATION:  394..1389
;        FEATURE:
;             NAME/KEY:  3'UTR
;             LOCATION:  1390..1671
;        SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-09-097-231-15

  Query Match             47.3%;  Score 939;  DB 3;  Length 1671;
  Best Local Similarity   79.4%;  Pred. No. 1.5e-218;
  Matches 1249;  Conservative    0;  Mismatches  304;  Indels   20;  Gaps   11;

Qy        144 AAAAAAGAAAAAGAAAAAAGAAAAAAAGAAAAAAAAGAAAAAGCAAAGAGCAGACTCTTT 203
              ||    | || |  |||     ||  | |     | ||  | ||||||||||||||||||||||
Db         94 AATGCATAAGATTAAAGTTAAAGCAGAAGTGAGAACAAGAAAGCAAAGAGCAGACTCTTT 153

Qy        204 GAACTAAGAATGAGCATTTCAGAAATCGAAGATGTTACAGTGAAGGTGATCGGAGCTGTA 263
              |||| |||||||  ||||  |||  | ||||| |||  |||| | ||||  |||  |||
Db        154 CAACTGAGAATGAATATTTT-GAAGCCCAAGATTTTAACGTGATGATGATTAGAGTCGTA 212

Qy        264 CCTGGAAGACAGTAAGAGCTCCACTGCCAGCCTTTTGGAGCACGGGACAGGTACTCAACA 323
              |||  |||| | ||| | |||||    | |||    |  |  |  | ||||  ||||| |||
Db        213 CCTAAAAGAGACTAAAAACTCCATGTCAAGC---TCTGGACTTGTGACATTTACTC-ACA 268

Qy        324 CCTGGCAGGCCAGCTGGATCCTCAGAACTTTGGGACGCACGGAGAGGGGGAGAACATCAC 383
              | |||| | ||  |  | |||||  ||||||  |||  |   |||   |||| | || ||
Db        269 GCAGGCATGGCAATTTTAGCCTCACAACTTTCAGACAGATAAAGACTTGGAGGAAATAAC 328

Qy        384 CG---GGGCTCCCTGGCTGGAGAGGCCGAATCAGTCCCGAGGGGGTCTGCATACACTTGT 440
              |    | |||||||  |    ||||   ||||| | | | |||   ||| | |  ||  |
Db        329 TGAGACGACTCCCTGACCCAGGAGGTTAAATCAATTCAGGGGGACACTGGA-ATTCTCCT 387

Qy        441 TGCAGGATGAACTCCACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGC 500
              |||  |||      | ||   || |  || ||||||||||||||  ||| ||||||||||
Db        388 GCCAGCATGGTGAACTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGC 447

Qy        501 AGCACCTACGGACAGCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGG 560
              ||||  ||| ||| |||| |||| |||| ||||||||||||  |||||||||  | || ||
Db        448 AGCAGTTACAGACTGCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGA 507

Qy        561 GGATGCTACGAGCAACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGC 620
              || ||||||| |||||| || ||||| || |||||||| |||||||||| || || |||
Db        508 GGGTGCTACGCGCAACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTGATCAGC 567

Qy        621 TTGCTGGAGAACATTCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCACCC 680
              ||| ||||||| ||  | | ||| ||||||||||||||||||||||||||| ||||||
Db        568 TTGTTGGAGAATATCTTAGAGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCC 627

Qy        681 ATGTACTTTTTCATCTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGG 740
              |||||||||||||||| ||| |||||||||| |||||||||||||||||||| || ||
Db        628 ATGTACTTTTTCATCTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGA 687

Qy        741 TCAGAGACCATCGTCATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTCACG 800
              ||||| |||||  |||||||||| || ||| |||| |||||||| || ||||||||||
Db        688 TCAGAAACCATTATCATCACCCTATTAAACCGTACAGATACGGATGCACAGAGTTTCACA 747

Qy        801 GTGAATATTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGC 860
              |||||||||||||||||||||||||||||||||||||||||||||| || || ||||||
Db        748 GTGAATATTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGC 807

Qy        861 AGCCTGCTCTCAATTGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCAT 920
              |||||||| |||||||||||||||||||||||||||||||||| ||||| ||||||||||
Db        808 AGCCTGCTTTCAATTGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCAT 867

Qy        921 AACATCATGACGGTGAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGCACG 980
              ||||| |||||  || | ||||||||||||||  ||| |||||  |||||||  |||||||||
Db        868 AACATTATGACAGTTAAGCGGGTTGGGATCAGCATAAGTTGTATCTGGGCAGCTTGCACG 927

Qy        981 GTGTCAGGCATCTTGTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATC 1040
              || ||||| || |||||||||||||||||  || |||| |||||||||||||||||||||
Db        928 GTTTCAGGTATTTTGTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATC 987

Qy       1041 ACCATGTTCTTCACCATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATG 1100
              |||||||||||||||||||||||||||||||||||||||||||||  ||||||  |||||||
Db        988 ACCATGTTCTTCACCATGCTGGCTCTCATGGCTTCTCTCTATGTCCACCTGTTCCTGATG 1047

Qy       1101 GCCAGACTGCACATCAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCCAAGGG 1160
              ||||| || ||||| ||||| || || |||||||| |||||  ||  ||||||||||||
Db       1048 GCCAGGCTTCACATTAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCCAAGGT 1107

Qy       1161 GCCAACATGAAGGGTGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGG 1220
              ||||| |||||||| || |||||||||||||  || ||||| ||||| || |||||||||
Db       1108 GCCAATATGAAGGGAGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTGCTGG 1167

Qy       1221 GCTCCATTCTTCCTCCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTG 1280
              || |||||||||||||||| ||||||||||||||||||||| |||||||||| ||||||
Db       1168 GCCCCATTCTTCCTCCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATTGTGTG 1227

Qy       1281 TGCTTCATGTCTCACTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGAC 1340
              |||||||||||||||||||||||||| ||||| |||||||||||||| || ||||||||
Db       1228 TGCTTCATGTCTCACTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGAT 1287

Qy       1341 CCTCTCATTTATGCACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGT 1400
              ||||| |||||||||||||||| ||||| ||||||||||||||||||||||||||||| |
Db       1288 CCTCTGATTTATGCACTCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTCT 1347

Qy       1401 TGCTATCCTCTGGGTGGCCTTTGTGACTTGTCTAGCAGATACTAGCTGGGGACAGAGGAA 1460
              | |||||| ||||| |||||||||||||||||||||||||||  |||||||||||| |
Db       1348 TCCTATCCCCTGGGAGGCCTTTGTGACTTGTCTAGCAGATATTAAATGGGGACAGAGCAC 1407

Qy       1461 GTACTAAA--AACATGCACCAGAGACTTCTTCATCCTCACACAACATGAACTGTGTGCTT 1518
              | | || |  ||||| ||  |||||||| ||||  || || | || ||||   | | |||
Db       1408 GCAATATAGGAACATCCATAAGAGACTTTTTCACTCTTACCCTACCTGAATATTCTACTT 1467

Qy       1519 GGACAACAGCTGCTTCTTCAGTATAAGGCAGGAGTTGAGAATATCTGTTGCACAAATTCA 1578
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                ||||||||   |||||  ||  ||  ||  |   ||||||  |||||  |||   |||||  |
Db       1468 CTGCAACAGCTTTCTCTTCCGTGTAGGGTACTGGTTGAG-ATATCCATTGTGTAAATTTA 1526

Qy       1579 ACTTTATGATGTTTTGATGTGAAAAAAAAAATGCCCAGGCTCTGTA-CATTGCTAATGTC 1637
              |   ||||||  |||          | ||||||||||||| |||||||  |||  |  ||| ||
Db       1527 AGCCTATGATTTTT-----AATGAGAAAAAATGCCCAGTCTCTGTATTATTTCCAATCTC 1581

Qy       1638 ATGCTAC-TTTTGGGCTGTGCATTGTTAATCCAT-TTCGACGCTGTAGACACTTTGAATT 1695
              |||||||  ||||  |||   |  | |  |||| ||  ||   | |  |||||  |||| || |||
Db       1582 ATGCTACTTTTTTGGCCATAAAATATGAATCTATGTTATAGGTTGTAGGCACTGTGGATT 1641

Qy       1696 TCTAGAAAAGAAA 1708
              |  | |||  |||
Db       1642 TACAAAAAGAAAA 1654


RESULT 6
US-09-353-099-15
; Sequence 15, Application US/09353099
; Patent No. 6476187
;   GENERAL INFORMATION:
;        APPLICANT: Cone, Roger D
;                   Fan, Wei
;                   Boston, Bruce A
;                   Kesterton, Robert A
;                   Lu, Dongsi
;                   Chen, Wenbiao
;        TITLE OF INVENTION: Methods and Reagents for Discovering and
;                            Using Mammalian Melanocortin Receptor Agonists and Antagoni
;                            To Modulate Feeding Behavior in Animals
;        NUMBER OF SEQUENCES: 19
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
;             STREET: 300 South Wacker Drive
;             CITY: Chicago
;             STATE: IL
;             COUNTRY: USA
;             ZIP: 60606
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.25
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/353,099
;             FILING DATE: 14-Sep-1999
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 08/706,281
;             FILING DATE: 04-SEP-1996
;        ATTORNEY/AGENT INFORMATION:
;             NAME: No. 6476187nan, Kevin E
;             REGISTRATION NUMBER: 35,303
;             REFERENCE/DOCKET NUMBER: 96,886
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 312-913-0001
;             TELEFAX: 312-913-0002
;             TELEX: <Unknown>
;   INFORMATION FOR SEQ ID NO: 15:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 1671 base pairs
;             TYPE: nucleic acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: cDNA to mRNA
;        FEATURE:
;             NAME/KEY:  5'UTR
;             LOCATION:  1..393
;        FEATURE:
;             NAME/KEY:  CDS
;             LOCATION:  394..1389
;        FEATURE:
;             NAME/KEY:  3'UTR
;             LOCATION:  1390..1671
;        SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-09-353-099-15

  Query Match             47.3%;  Score 939;  DB 4;  Length 1671;
  Best Local Similarity   79.4%;  Pred. No. 1.5e-218;
  Matches 1249;  Conservative    0;  Mismatches  304;  Indels   20;  Gaps   11;

Qy        144 AAAAAAGAAAAAGAAAAAAGAAAAAAAGAAAAAAAAGAAAAAGCAAAGAGCAGACTCTTT 203
              ||   | ||  |  |||    ||  | |    | ||  | ||||||||||||||||||||
Db         94 AATGCATAAGATTAAAGTTAAAGCAGAAGTGAGAACAAGAAAGCAAAGAGCAGACTCTTT 153

Qy        204 GAACTAAGAATGAGCATTTCAGAAATCGAAGATGTTACAGTGAAGGTGATCGGAGCTGTA 263
              ||||  |||||||  ||||  |||  | |||||  |||  ||||  |  ||||  |||  |||
Db        154 CAACTGAGAATGAATATTTT-GAAGCCCAAGATTTTAACGTGATGATGATTAGAGTCGTA 212

Qy        264 CCTGGAAGACAGTAAGAGCTCCACTGCCAGCCTTTTGGAGCACGGGACAGGTACTCAACA 323
              |||  ||||  |  |||  |  |||||    |  |||    |   |   |   |  ||||  |||||  |||
Db        213 CCTAAAAGAGACTAAAAACTCCATGTCAAGC---TCTGGACTTGTGACATTTACTC-ACA 268

Qy        324 CCTGGCAGGCCAGCTGGATCCTCAGAACTTTGGGACGCACGGAGAGGGGGAGAACATCAC 383
              | ||||  |  ||   |  |  |||||  ||||||   |||   |    |||    ||||  |  ||  ||
Db        269 GCAGGCATGGCAATTTAGCCTCACAACTTTCAGACAGATAAAGACTTGGAGGAAATAAC 328

Qy        384 CG---GGGCTCCCTGGCTGGAGAGGCCGAATCAGTCCCGAGGGGGTCTGCATACACTTGT 440
              ||     |  |||||||  |     ||||    |||||  |  |  |  |||    |||  |  |    ||   |
Db        329 TGAGACGACTCCCTGACCCAGGAGGTTAAATCAATTCAGGGGGACACTGGA-ATTCTCCT 387

Qy        441 TGCAGGATGAACTCCACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGC 500
              |||  |||      |  ||    ||  |   ||  ||||||||||||||  |||  ||||||||||||
Db        388 GCCAGCATGGTGAACTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGC 447

Qy        501 AGCACCTACGGACAGCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGG 560
              ||||  |||  |||  ||||  ||||  ||||  ||||||||||||  |||||||||  |  ||  ||
Db        448 AGCAGTTACAGACTGCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGA 507

Qy        561 GGATGCTACGAGCAACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGC 620
              ||  |||||||  ||||||  ||  |||||  ||  ||||||||  ||||||||||  ||  ||  |||
Db        508 GGGTGCTACGCGCAACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTGATCAGC 567

Qy        621 TTGCTGGAGAACATTCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCACCC 680
              |||  |||||||  ||   |  |  |||  ||||||||||||||||||||||||||||||  ||||||
Db        568 TTGTTGGAGAATATCTTAGAGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCC 627

Qy        681 ATGTACTTTTTCATCTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGG 740
              ||||||||||||||||  |||  ||||||||||  ||||||||||||||||||||||  ||  ||
Db        628 ATGTACTTTTTCATCTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGA 687

Qy        741 TCAGAGACCATCGTCATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTCACG 800
              |||||  |||||  ||||||||||  ||  |||  ||||  ||||||||  ||  ||||||||||
Db        688 TCAGAAACCATTATCATCACCCTATTAAACCGTACAGATACGGATGCACAGAGTTTCACA 747

Qy        801 GTGAATATTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGC 860
              ||||||||||||||||||||||||||||||||||||||||||||||||||  ||  ||||||
Db        748 GTGAATATTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGC 807

Qy        861 AGCCTGCTCTCAATTGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCAT 920
              ||||||||  |||||||||||||||||||||||||||||||  |||||  ||||||||||||
Db        808 AGCCTGCTTTCAATTGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCAT 867

Qy        921 AACATCATGACGGTGAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGCACG 980
              |||||  |||||  ||  |  ||||||||||||||  |||  |||||  ||||||||  ||||||||||
Db        868 AACATTATGACAGTTAAGCGGGTTGGGATCAGCATAAGTTGTATCTGGGCAGCTTGCACG 927

Qy        981 GTGTCAGGCATCTTGTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATC 1040
              ||  |||||  ||  ||||||||||||||||  ||  ||||  |||||||||||||||||||||||
Db        928 GTTTCAGGTATTTTGTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATC 987

Qy       1041 ACCATGTTCTTCACCATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATG 1100
              |||||||||||||||||||||  ||||||||||||||||  ||||||  |||||||  |||
Db        988 ACCATGTTCTTCACCATGCTGGCTCTCATGGCTTCTCTCTATGTCCACCTGTTCCTGATG 1047

Qy       1101 GCCAGACTGCACATCAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCCAAGGG 1160
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Db       1048 GCCAGGCTTCACATTAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCCAAGGT 1107

Qy       1161 GCCAACATGAAGGGTGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGG 1220

Db       1108 GCCAATATGAAGGGAGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTGCTGG 1167

Qy       1221 GCTCCATTCTTCCTCCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTG 1280

Db       1168 GCCCCATTCTTCCTCCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATTGTGTG 1227

Qy       1281 TGCTTCATGTCTCACTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGAC 1340

Db       1228 TGCTTCATGTCTCACTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGAT 1287

Qy       1341 CCTCTCATTTATGCACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGT 1400

Db       1288 CCTCTGATTTATGCACTCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTCT 1347

Qy       1401 TGCTATCCTCTGGGTGGCCTTTGTGACTTGTCTAGCAGATACTAGCTGGGGACAGAGGAA 1460

Db       1348 TCCTATCCCCTGGGAGGCCTTTGTGACTTGTCTAGCAGATATTAAATGGGGACAGAGCAC 1407

Qy       1461 GTACTAAA--AACATGCACCAGAGACTTCTTCATCCTCACACAACATGAACTGTGTGCTT 1518

Db       1408 GCAATATAGGAACATCCATAAGAGACTTTTTCACTCTTACCCTACCTGAATATTCTACTT 1467

Qy       1519 GGACAACAGCTGCTTCTTCAGTATAAGGCAGGAGTTGAGAATATCTGTTGCACAAATTCA 1578

Db       1468 CTGCAACAGCTTTCTCTTCCGTGTAGGGTACTGGTTGAG-ATATCCATTGTGTAAATTTA 1526

Qy       1579 ACTTTATGATGTTTTGATGTGAAAAAAAAAATGCCCAGGCTCTGTA-CATTGCTAATGTC 1637

Db       1527 AGCCTATGATTTTT-----AATGAGAAAAAATGCCCAGTCTCTGTATTATTTCCAATCTC 1581

Qy       1638 ATGCTAC-TTTTGGGCTGTGCATTGTTAATCCAT-TTCGACGCTGTAGACACTTTGAATT 1695

Db       1582 ATGCTACTTTTTTGGCCATAAAATATGAATCTATGTTATAGGTTGTAGGCACTGTGGATT 1641

Qy       1696 TCTAGAAAAGAAA 1708

Db       1642 TACAAAAAGAAAA 1654


RESULT 7
US-09-016-434-1277
; Sequence 1277, Application US/09016434
; Patent No. 6500938
;  GENERAL INFORMATION:
;    APPLICANT:  Janice Au-Young
;    APPLICANT:  Jeffrey J. Seilhamer
;    TITLE OF INVENTION:  COMPOSITION FOR THE DETECTION OF SIGNALING
;    TITLE OF INVENTION:  PATHWAY GENE EXPRESSION
;    NUMBER OF SEQUENCES:  1490
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  INCYTE PHARMACEUTICALS, INC.
;      STREET:  3174 PORTER DRIVE
;      CITY:  PALO ALTO
;      STATE:  CALIFORNIA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  Word Perfect 6.1 for Windows/MS-DOS 6.2
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/016,434
;      FILING DATE:  HEREWITH
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Zeller, Karen J.
;      REGISTRATION NUMBER:  37,071
;      REFERENCE/DOCKET NUMBER:  PA-0002 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (650) 855-0555
;      TELEFAX:  (650) 845-4166
;  INFORMATION FOR SEQ ID NO:  1277:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  999 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  GENBANK
;      CLONE:  g291977
US-09-016-434-1277

  Query Match             41.2%;  Score 818.8;  DB 4;  Length 999;
  Best Local Similarity   89.2%;  Pred. No. 2.1e-189;
  Matches  883;  Conservative    0;  Mismatches  107;  Indels    0;  Gaps    0;

Qy        455 CACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGCAGCACCTACGGACA 514

Db          9 CTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGCAGCAGTTACAGACT 68

Qy        515 GCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGGGGATGCTACGAGCA 574

Db         69 GCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGAGGGTGCTACGAGCA 128

Qy        575 ACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGCTTGCTGGAGAACAT 634

Db        129 ACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTCATCAGCTTGTTGGAGAATAT 188

Qy        635 TCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCACCCATGTACTTTTTCAT 694

Db        189 CTTAGTGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCCATGTACTTTTTCAT 248

Qy        695 CTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGGTCAGAGACCATCGT 754

Db        249 CTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGATCAGAAACCATTAT 308

Qy        755 CATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTCACGGTGAATATTGATAA 814

Db        309 CATCACCCTATTAAACAGTACAGATACGGATGCACAGAGTTTCACAGTGAATATTGATAA 368

Qy        815 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGCAGCCTGCTCTCAAT 874

Db        369 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGCAGCCTGCTTTCAAT 428

Qy        875 TGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCATAACATCATGACGGT 934

Db        429 TGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCATAACATTATGACAGT 488

Qy        935 GAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGCACGGTGTCAGGCATCTT 994

Db        489 TAAGCGGGTTGGGATCATCATAAGTTGTATCTGGGCAGCTTGCACGGTTTCAGGCATTTT 548

Qy        995 GTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 1054

Db        549 GTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 608

Qy       1055 CATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATGGCCAGACTGCACAT 1114

Db        609 CATGCTGGCTCTCATGGCTTCTCTCTATGTCCACATGTTCCTGATGGCCAGGCTTCACAT 668

Qy       1115 CAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCCAAGGGGCCAACATGAAGGG 1174

Db        669 TAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCCAAGGTGCCAATATGAAGGG 728

Qy       1175 TGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGGGCTCCATTCTTCCT 1234
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Db        729 AGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTGCTGGGCCCCATTCTTCCT 788

Qy       1235 CCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTGTGCTTCATGTCTCA 1294
              |||||| |||||||||||||||||||| |||||||||| ||||||||||||||||||||
Db        789 CCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATTGTGTGTGCTTCATGTCTCA 848

Qy       1295 CTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGACCCTCTCATTTATGC 1354
              |||||||||||| ||||| |||||||||||||| || |||||||| ||||| ||||||||
Db        849 CTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGATCCTCTGATTTATGC 908

Qy       1355 ACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCTCTGGG 1414
              ||||||||| ||||| ||||||||||||||||||||||||||||||||||||| |||||
Db        909 ACTCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCCCTGGG 968

Qy       1415 TGGCCTTTGTGACTTGTCTAGCAGATACTA 1444
              |||||||||||||||||||||||||| ||
Db        969 AGGCCTTTGTGACTTGTCTAGCAGATATTA 998


RESULT 8
US-09-831-206-1
; Sequence 1, Application US/09831206
; Patent No. 6573070
; GENERAL INFORMATION:
;  APPLICANT: MacNeil, Douglas J.
;  APPLICANT:  Weinberg, David H.
;  APPLICANT:  Van der Ploeg, Leonardus H. T.
;  TITLE OF INVENTION: DNA MOLECULES ENCODING THE MELANOCORTIN
;  TITLE OF INVENTION:  4 RECEPTOR PROTEIN FROM RHESUS MONKEY
;  FILE REFERENCE: 20190P
;  CURRENT APPLICATION NUMBER: US/09/831,206
;  CURRENT FILING DATE:  2001-06-28
;  PRIOR APPLICATION NUMBER: PCT/US99/25767
;  PRIOR FILING DATE: 1999-11-05
;  PRIOR APPLICATION NUMBER: 60/107,721
;  PRIOR FILING DATE: 1998-11-09
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
;   LENGTH: 1030
;   TYPE: DNA
;   ORGANISM: rhesus monkey (Macaca mulatta)
US-09-831-206-1

  Query Match             41.2%;  Score 817.6;  DB 4;  Length 1030;
  Best Local Similarity   87.4%;  Pred. No. 4.3e-189;
  Matches  895;  Conservative    0;  Mismatches  129;  Indels    0;  Gaps    0;

Qy        436 CTTGTTGCAGGATGAACTCCACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGA 495
              ||  |  ||| |||     | ||   || |  || |||||| ||||||| ||| ||||||
Db          6 CTCCTGCCAGCATGGTGAACTCCACCCACCGTGGGATGCACGCTTCTCTGCACCTCTGGA 65

Qy        496 ACCGCAGCACCTACGGACAGCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCG 555
              ||||||||| | || ||| |||| |||| |||| |||||||||||| ||||||||| | |
Db         66 ACCGCAGCAGCCACAGACTGCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTG 125

Qy        556 ACGGGGGATGCTACGAGCAACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCA 615
              | || || |||||||||||||| || ||||| || |||||||| ||||| ||||| ||||
Db        126 ATGGAGGGTGCTACGAGCAACTTTTGTCTCTCCTGAGGTGTTTGTGACACTGGGTGTCA 185

Qy        616 TAAGCTTGCTGGAGAACATTCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACT 675
              | |||||| ||||||| ||  | ||||| |||||||||||||||||||||||||||| |
Db        186 TCAGCTTGTTGGAGAATATCTTAGTGATTGTGGCAATAGCCAAGAACAAGAATCTGCATT 245

Qy        676 CACCCATGTACTTTTTCATCTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCA 735
              |||||||||||||||||||| |||||||||||||| |||||||||||||||||||| |
Db        246 CACCCATGTACTTTTTCATCTGCAGCCTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAA 305

Qy        736 ACGGGTCAGAGACCATCGTCATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTT 795
              | || ||||| ||||| |||||||||||| || |||||||| ||||||||| | |||||||
Db        306 ATGGATCAGAAACCATTGTCATCACCCTATTAAACAGTACAGATACGGACACACAGAGTT 365

Qy        796 TCACGGTGAATATTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGA 855
              |||| ||||| |||||||||||| |||||||| ||||||||||||||||||||| || || |
Db        366 TCACAGTGAACATTGATAATGTTATTGACTCAGTGATCTGTAGCTCCTTGCTTGCATCCA 425

Qy        856 TTTGCAGCCTGCTCTCAATTGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGT 915
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Db        426 TTTGCAGCCTGCTTTCAATTGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTTCAGT 485

Qy        916 ACCATAACATCATGACGGTGAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTT 975
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Db        486 ACCATAACATTATGACAGTTAAGCGGGTTGGGATCATCATAAGTTGTATCTGGGCAGCTT 545

Qy        976 GCACGGTGTCAGGCATCTTGTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCC 1035
              |||||||| |||||||| |||||||||||||||| || |||| ||||||||||||||||||
Db        546 GCACGGTTTCAGGCATTTTGTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCC 605

Qy       1036 TCATCACCATGTTCTTCACCATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCC 1095
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Db        606 TCATCACCATGTTCTTCACCATGTTGGCTCTCATGGCTTCTCTCTATGTCCACATGTTCC 665

Qy       1096 TCATGGCCAGACTGCACATCAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCC 1155
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Db        666 TGATGGCCAGGCTTCACATTAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCC 725

Qy       1156 AAGGGGCCAACATGAAGGGTGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCT 1215
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Db        726 AAGGCGCCAATATGAAGGGAGCGATTACTTTGACCATCCTGATTGGCGTCTTTGTTGTCT 785

Qy       1216 GCTGGGCTCCATTCTTCCTCCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACT 1275
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Db        786 GCTGGGCCCCATTCTTCCTCCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATT 845

Qy       1276 GTGTGTGCTTCATGTCTCACTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCA 1335
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Db        846 GTGTGTGCTTCATGTCTCACTTTAACTTGTATCTCATACTGATCATGTGTAATTCAGTCA 905

Qy       1336 TCGACCCTCTCATTTATGCACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCA 1395
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Db        906 TCGATCCTCTGATTTATGCACTCCGGAGTCAAGAACTAAGGAAAACCTTCAAAGAGATCA 965

Qy       1396 TCTGTTGCTATCCTCTGGGTGGCCTTTGTGACTTGTCTAGCAGATACTAGCTGGGGACAG 1455
              |||||||||||||| ||||| ||||| |||||||||||||||||||| ||  |||||||||
Db        966 TCTGTTGCTATCCCCTGGGAGGCCTATGTGACTTGTCTAGCAGATATTAAATGGGGACAG 1025

Qy       1456 AGGA 1459
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Db       1026 AGCA 1029


RESULT 9
US-08-671-525B-7
; Sequence 7, Application US/08671525B
; Patent No. 5703220
;  GENERAL INFORMATION:
;    APPLICANT:  Yamada, Tadataka
;    APPLICANT:  Gantz, Ira
;    TITLE OF INVENTION:  Genes Encoding Melanocortin Receptors
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Harness, Dickey & Pierce, P.L.C.
;      STREET:  P.O. Box 828
;      CITY:  Bloomfield Hills
;      STATE:  MI
;      COUNTRY:  US
;      ZIP:  48303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/671,525B
;      FILING DATE:  June 27, 1996
;      CLASSIFICATION:  435
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;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Smith, DeAnn F.
;      REGISTRATION NUMBER:  36683
;      REFERENCE/DOCKET NUMBER:  2115-000853DVB
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (810)641-1600
;      TELEFAX:  (810)641-0270
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  996 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    ORIGINAL SOURCE:
;      ORGANISM:  homo sapiens
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..996
US-08-671-525B-7

  Query Match             41.2%;  Score 817.4;  DB 1;  Length 996;
  Best Local Similarity   89.3%;  Pred. No. 4.7e-189;
  Matches  881;  Conservative    0;  Mismatches  106;  Indels    0;  Gaps    0;

Qy        455 CACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGCAGCACCTACGGACA 514
              | ||   || |  || ||||||||||||||| ||| ||||||||||||||  ||| |||
Db          9 CTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGCAGCAGTTACAGACT 68

Qy        515 GCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGGGGATGCTACGAGCA 574
              |||| |||| |||| |||||||||||| |||||||||  | || || || ||||||||||
Db         69 GCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGAGGGTGCTACGAGCA 128

Qy        575 ACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGCTTGCTGGAGAACAT 634
              ||| || ||||| || |||||||| |||||||||| ||||| |||||| ||||||| ||
Db        129 ACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTCATCAGCTTGTTGGAGAATAT 188

Qy        635 TCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCACCCATGTACTTTTTCAT 694
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Db        189 CTTAGTGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCCATGTACTTTTTCAT 248

Qy        695 CTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGGTCAGAGACCATCGT 754
              ||| ||| |||||||||| |||||||||||||||||||| || || ||||| |||||  |
Db        249 CTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGATCAGAAACCATTAT 308

Qy        755 CATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTCACGGTGAATATTGATAA 814
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Db        309 CATCACCCTATTAAACAGTACAGATACGGATGCACAGAGTTTCACAGTGAATATTGATAA 368

Qy        815 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGCAGCCTGCTCTCAAT 874
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Db        369 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGCAGCCTGCTTTCAAT 428

Qy        875 TGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCATAACATCATGACGGT 934
              |||||||||||||||||||||||||||||| ||||| |||||||||||||||| ||||| ||
Db        429 TGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCATAACATTATGACAGT 488

Qy        935 GAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGCACGGTGTCAGGCATCTT 994
              | |||||||||||||||||| ||||| |||||||| |||||||||||| |||||||| ||
Db        489 TAAGCGGGTTGGGATCATCATAAGTTGTATCTGGGCAGCTTGCACGGTTTCAGGCATTTT 548

Qy        995 GTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 1054
              |||||||||||||| || |||| ||||||||||||||||||||||||||||||||||||
Db        549 GTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 608

Qy       1055 CATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATGGCCAGACTGCACAT 1114
              |||||||| |||||||||||||||| |||||||||||||| |||||||| || |||||
Db        609 CATGCTGGCTCTCATGGCTTCTCTCTATGTCCACATGTTCCTGATGGCCAGGCTTCACAT 668

Qy       1115 CAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCCAAGGGGCCAACATGAAGGG 1174
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Db        669 TAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCCAAGGTGCCAATATGAAGGG 728

Qy       1175 TGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGGGCTCCATTCTTCCT 1234
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Db        729 AGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTGCTGGGCCCCATTCTTCCT 788

Qy       1235 CCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTGTGCTTCATGTCTCA 1294
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Db        789 CCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATTGTGTGTGCTTCATGTCTCA 848

Qy       1295 CTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGACCCTCTCATTTATGC 1354
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Db        849 CTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGATCCTCTGATTTATGC 908

Qy       1355 ACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCTCTGGG 1414
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Db        909 ACTCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCCCTGGG 968

Qy       1415 TGGCCTTTGTGACTTGTCTAGCAGATA 1441
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Db        969 AGGCCTTTGTGACTTGTCTAGCAGATA 995


RESULT 10
US-08-672-109B-7
; Sequence 7, Application US/08672109B
; Patent No. 5710265
;  GENERAL INFORMATION:
;    APPLICANT:  Yamada, Tadataka
;    APPLICANT:  Gantz, Ira
;    TITLE OF INVENTION:  Genes Encoding Melanocortin Receptors
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Harness, Dickey & Pierce, P.L.C.
;      STREET:  P.O. Box 828
;      CITY:  Bloomfield Hills
;      STATE:  MI
;      COUNTRY:  US
;      ZIP:  48303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/672,109B
;      FILING DATE:  June 27, 1996
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Smith, DeAnn F.
;      REGISTRATION NUMBER:  36683
;      REFERENCE/DOCKET NUMBER:  2115-000853DVC
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (810)641-1600
;      TELEFAX:  (810)641-0270
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  996 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    ORIGINAL SOURCE:
;      ORGANISM:  homo sapiens
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..996
US-08-672-109B-7

  Query Match             41.2%;  Score 817.4;  DB 1;  Length 996;
  Best Local Similarity   89.3%;  Pred. No. 4.7e-189;
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  Matches  881;  Conservative    0;  Mismatches  106;  Indels    0;  Gaps    0;

Qy        455 CACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGCAGCACCTACGGACA 514
              | ||   || |  || ||||||||||||||| ||| |||||||||||||||  ||| |||
Db          9 CTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGCAGCAGTTACAGACT 68

Qy        515 GCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGGGGATGCTACGAGCA 574
              |||| |||| |||| |||||||||||| |||||||||| | || || || ||||||||||
Db         69 GCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGAGGGTGCTACGAGCA 128

Qy        575 ACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGCTTGCTGGAGAACAT 634
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Db        129 ACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTCATCAGCTTGTTGGAGAATAT 188

Qy        635 TCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCACCCATGTACTTTTTCAT 694
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Db        189 CTTAGTGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCCATGTACTTTTTCAT 248

Qy        695 CTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGGTCAGAGACCATCGT 754
              ||| ||| |||||||||| |||||||||||||||||| || || ||||| |||||  |
Db        249 CTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGATCAGAAACCATTAT 308

Qy        755 CATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTCACGGTGAATATTGATAA 814
              ||||||||| || |||||||| |||||||| || |||||||||| ||||||||||||||
Db        309 CATCACCCTATTAAACAGTACAGATACGGATGCACAGAGTTTCACAGTGAATATTGATAA 368

Qy        815 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGCAGCCTGCTCTCAAT 874
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Db        369 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGCAGCCTGCTTTCAAT 428

Qy        875 TGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCATAACATCATGACGGT 934
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Db        429 TGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCATAACATTATGACAGT 488

Qy        935 GAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGCACGGTGTCAGGCATCTT 994
              | |||||||||||||||||| ||||| |||||||| |||||||||| |||||||| ||
Db        489 TAAGCGGGTTGGGATCATCATAAGTTGTATCTGGGCAGCTTGCACGGTTTCAGGCATTTT 548

Qy        995 GTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 1054
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Db        549 GTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 608

Qy       1055 CATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATGGCCAGACTGCACAT 1114
              ||||||||| |||||||||||||||| |||||||||||||| |||||||| || |||||
Db        609 CATGCTGGCTCTCATGGCTTCTCTCTATGTCCACATGTTCCTGATGGCCAGGCTTCACAT 668

Qy       1115 CAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCCAAGGGGCCAACATGAAGGG 1174
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Db        669 TAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCCAAGGTGCCAATATGAAGGG 728

Qy       1175 TGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGGGCTCCATTCTTCCT 1234
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Db        729 AGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTGCTGGGCCCCATTCTTCCT 788

Qy       1235 CCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTGTGCTTCATGTCTCA 1294
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Db        789 CCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATTGTGTGTGCTTCATGTCTCA 848

Qy       1295 CTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGACCCTCTCATTTATGC 1354
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Db        849 CTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGATCCTCTGATTTATGC 908

Qy       1355 ACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCTCTGGG 1414
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Db        909 ACTCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCCCTGGG 968

Qy       1415 TGGCCTTTGTGACTTGTCTAGCAGATA 1441
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Db        969 AGGCCTTTGTGACTTGTCTAGCAGATA 995


RESULT 11
US-08-842-045-7
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; Sequence 7, Application US/08842045
; Patent No. 5817787
;  GENERAL INFORMATION:
;    APPLICANT:  Yamada, Tadataka
;    APPLICANT:  Gantz, Ira
;    TITLE OF INVENTION:  Genes Encoding Melanocortin Receptors
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Harness, Dickey & Pierce, P.L.C.
;      STREET:  P.O. Box 828
;      CITY:  Bloomfield Hills
;      STATE:  MI
;      COUNTRY:  US
;      ZIP:  48303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/842,045
;      FILING DATE:
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Smith, DeAnn F.
;      REGISTRATION NUMBER:  36683
;      REFERENCE/DOCKET NUMBER:  2115-000853DVE
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (810)641-1600
;      TELEFAX:  (810)641-0270
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  996 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    ORIGINAL SOURCE:
;      ORGANISM:  homo sapiens
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..996
US-08-842-045-7

  Query Match             41.2%;  Score 817.4;  DB 1;  Length 996;
  Best Local Similarity   89.3%;  Pred. No. 4.7e-189;
  Matches  881;  Conservative    0;  Mismatches  106;  Indels    0;  Gaps    0;

Qy        455 CACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGCAGCACCTACGGACA 514
              | ||   || |  || ||||||||||||||| ||| |||||||||||||||  ||| |||
Db          9 CTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGCAGCAGTTACAGACT 68

Qy        515 GCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGGGGATGCTACGAGCA 574
              |||| |||| |||| |||||||||||| |||||||||| | || || || ||||||||||
Db         69 GCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGAGGGTGCTACGAGCA 128

Qy        575 ACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGCTTGCTGGAGAACAT 634
              ||| || ||||| || |||||||| |||||||||| ||||| |||||| ||||||| ||
Db        129 ACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTCATCAGCTTGTTGGAGAATAT 188

Qy        635 TCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCACCCATGTACTTTTTCAT 694
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Db        189 CTTAGTGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCCATGTACTTTTTCAT 248

Qy        695 CTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGGTCAGAGACCATCGT 754
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Db        249 CTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGATCAGAAACCATTAT 308

Qy        755 CATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTCACGGTGAATATTGATAA 814
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Db        309 CATCACCCTATTAAACAGTACAGATACGGATGCACAGAGTTTCACAGTGAATATTGATAA 368
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Qy        815 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGCAGCCTGCTCTCAAT 874
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Db        369 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGCAGCCTGCTTTCAAT 428

Qy        875 TGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCATAACATCATGACGGT 934
              |||||||||||||||||||||||||||| ||||| |||||||||||||||| ||||| ||
Db        429 TGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCATAACATTATGACAGT 488

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              | |||||||||||||||||| ||||| |||||||| |||||||||| ||||||| ||
Db        489 TAAGCGGGTTGGGATCATCATAAGTTGTATCTGGGCAGCTTGCACGGTTTCAGGCATTTT 548

Qy        995 GTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 1054
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Db        549 GTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 608

Qy       1055 CATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATGGCCAGACTGCACAT 1114
              ||||||||| |||||||||||||||| |||||||||||||| |||||||| || |||||
Db        609 CATGCTGGCTCTCATGGCTTCTCTCTATGTCCACATGTTCCTGATGGCCAGGCTTCACAT 668

Qy       1115 CAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCCAAGGGGCCAACATGAAGGG 1174
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Db        669 TAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCCAAGGTGCCAATATGAAGGG 728

Qy       1175 TGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGGGCTCCATTCTTCCT 1234
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Db        729 AGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTGCTGGGCCCCATTCTTCCT 788

Qy       1235 CCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTGTGCTTCATGTCTCA 1294
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Db        789 CCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATTGTGTGTGCTTCATGTCTCA 848

Qy       1295 CTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGACCCTCTCATTTATGC 1354
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Db        849 CTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGATCCTCTGATTTATGC 908

Qy       1355 ACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCCTCTGGG 1414
              ||||||||| ||||| |||||||||||||||||||||||||||||||||||||||||||||
Db        909 ACTCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCCCTGGG 968

Qy       1415 TGGCCTTTGTGACTTGTCTAGCAGATA 1441
              ||||||||||||||||||||||||||||
Db        969 AGGCCTTTGTGACTTGTCTAGCAGATA 995
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RESULT 12
US-08-842-238-7
; Sequence 7, Application US/08842238
; Patent No. 5869257
;  GENERAL INFORMATION:
;    APPLICANT:  Yamada, Tadataka
;    APPLICANT:  Gantz, Ira
;    TITLE OF INVENTION:  Genes Encoding Melanocortin Receptors
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Harness, Dickey & Pierce, P.L.C.
;      STREET:  P.O. Box 828
;      CITY:  Bloomfield Hills
;      STATE:  MI
;      COUNTRY:  US
;      ZIP:  48303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/842,238
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Smith, DeAnn F.
;      REGISTRATION NUMBER:  36683
;      REFERENCE/DOCKET NUMBER:  2115-000853DVD
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (810)641-1600
;      TELEFAX:  (810)641-0270
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  996 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    ORIGINAL SOURCE:
;      ORGANISM:  homo sapiens
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..996
US-08-842-238-7

  Query Match             41.2%;  Score 817.4;  DB 2;  Length 996;
  Best Local Similarity   89.3%;  Pred. No. 4.7e-189;
  Matches  881;  Conservative    0;  Mismatches  106;  Indels    0;  Gaps    0;
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Qy        455 CACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGCAGCACCTACGGACA 514
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Qy        515 GCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGGGGATGCTACGAGCA 574
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Db         69 GCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGAGGGTGCTACGAGCA 128

Qy        575 ACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGCTTGCTGGAGAACAT 634
              ||| || ||||| || |||||||| |||||||||| ||||| |||||| |||||| ||
Db        129 ACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTCATCAGCTTGTTGGAGAATAT 188

Qy        635 TCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCACCCATGTACTTTTTCAT 694
              | ||||| ||||||||||||||||||||||||||||| ||||||||||||||||||||
Db        189 CTTAGTGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCCATGTACTTTTTCAT 248

Qy        695 CTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGGTCAGAGACCATCGT 754
              ||| ||| |||||||||| |||||||||||||||||||| || || ||||| |||||  |
Db        249 CTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGATCAGAAACCATTAT 308

Qy        755 CATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTCACGGTGAATATTGATAA 814
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Db        309 CATCACCCTATTAAACAGTACAGATACGGATGCACAGAGTTTCACAGTGAATATTGATAA 368

Qy        815 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGCAGCCTGCTCTCAAT 874
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Db        369 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGCAGCCTGCTTTCAAT 428

Qy        875 TGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCATAACATCATGACGGT 934
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Db        429 TGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCATAACATTATGACAGT 488

Qy        935 GAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGCACGGTGTCAGGCATCTT 994
              | |||||||||||||||||| ||||| |||||||| |||||||||| ||||||| ||
Db        489 TAAGCGGGTTGGGATCATCATAAGTTGTATCTGGGCAGCTTGCACGGTTTCAGGCATTTT 548

Qy        995 GTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 1054
              ||||||||||||||| || |||| ||||||||||||||||||||||||||||||||||||
Db        549 GTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 608

Qy       1055 CATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATGGCCAGACTGCACAT 1114
              ||||||||| |||||||||||||||| |||||||||||||| |||||||| || |||||
Db        609 CATGCTGGCTCTCATGGCTTCTCTCTATGTCCACATGTTCCTGATGGCCAGGCTTCACAT 668

Qy       1115 CAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCCAAGGGGCCAACATGAAGGG 1174
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Db        669 TAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCCAAGGTGCCAATATGAAGGG 728
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Qy       1175 TGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGGGCTCCATTCTTCCT 1234
Db        729 AGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTGCTGGGCCCCATTCTTCCT 788

Qy       1235 CCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTGTGCTTCATGTCTCA 1294
Db        789 CCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATTGTGTGTGCTTCATGTCTCA 848

Qy       1295 CTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGACCCTCTCATTTATGC 1354
Db        849 CTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGATCCTCTGATTTATGC 908

Qy       1355 ACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCTCTGGG 1414
Db        909 ACTCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCCCTGGG 968

Qy       1415 TGGCCTTTGTGACTTGTCTAGCAGATA 1441
Db        969 AGGCCTTTGTGACTTGTCTAGCAGATA 995
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RESULT 13
US-08-629-335B-7
; Sequence 7, Application US/08629335B
; Patent No. 6117975
; GENERAL INFORMATION:
; APPLICANT: Yamada, Tadataka
; APPLICANT: Gantz, Ira
; TITLE OF INVENTION: Genes Encoding Melanocortin Receptors
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Harness, Dickey & Pierce, P.L.C.
; STREET: P.O. Box 828
; CITY: Bloomfield Hills
; STATE: MI
; COUNTRY: US
; ZIP: 48303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/629,335B
; FILING DATE: July 23, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, DeAnn F.
; REGISTRATION NUMBER: 36683
; REFERENCE/DOCKET NUMBER: 2115-000853DVA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (810)641-1600
; TELEFAX: (810)641-0270
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 996 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..996
US-08-629-335B-7

Query Match 41.2%; Score 817.4; DB 3; Length 996;
Best Local Similarity 89.3%; Pred. No. 4.7e-189;
Matches 881; Conservative 0; Mismatches 106; Indels 0; Gaps 0;

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Qy        455 CACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGCAGCACCTACGGACA 514
Db          9 CTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGCAGCAGTTACAGACT 68

Qy        515 GCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGGGGATGCTACGAGCA 574
Db         69 GCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGAGGGTGCTACGAGCA 128

Qy        575 ACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGCTTGCTGGAGAACAT 634
Db        129 ACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTCATCAGCTTGTTGGAGAATAT 188

Qy        635 TCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCACCCATGTACTTTTTCAT 694
Db        189 CTTAGTGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCCATGTACTTTTTCAT 248

Qy        695 CTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGGTCAGAGACCATCGT 754
Db        249 CTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGATCAGAAACCATTAT 308

Qy        755 CATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTCACGGTGAATATTGATAA 814
Db        309 CATCACCCTATTAAACAGTACAGATACGGATGCACAGAGTTTCACAGTGAATATTGATAA 368

Qy        815 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGCAGCCTGCTCTCAAT 874
Db        369 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGCAGCCTGCTTTCAAT 428

Qy        875 TGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCATAACATCATGACGGT 934
Db        429 TGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCATAACATTATGACAGT 488

Qy        935 GAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGCACGGTGTCAGGCATCTT 994
Db        489 TAAGCGGGTTGGGATCATCATAAGTTGTATCTGGGCAGCTTGCACGGTTTCAGGCATTTT 548

Qy        995 GTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 1054
Db        549 GTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 608

Qy       1055 CATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATGGCCAGACTGCACAT 1114
Db        609 CATGCTGGCTCTCATGGCTTCTCTCTATGTCCACATGTTCCTGATGGCCAGGCTTCACAT 668

Qy       1115 CAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCCAAGGGGCCAACATGAAGGG 1174
Db        669 TAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCCAAGGTGCCAATATGAAGGG 728

Qy       1175 TGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGGGCTCCATTCTTCCT 1234
Db        729 AGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTGCTGGGCCCCATTCTTCCT 788

Qy       1235 CCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTGTGCTTCATGTCTCA 1294
Db        789 CCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATTGTGTGTGCTTCATGTCTCA 848

Qy       1295 CTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGACCCTCTCATTTATGC 1354
Db        849 CTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGATCCTCTGATTTATGC 908

Qy       1355 ACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCTCTGGG 1414
Db        909 ACTCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCCCTGGG 968

Qy       1415 TGGCCTTTGTGACTTGTCTAGCAGATA 1441
Db        969 AGGCCTTTGTGACTTGTCTAGCAGATA 995
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RESULT 14
US-08-870-511-7
; Sequence 7, Application US/08870511
; Patent No. 6287763

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; GENERAL INFORMATION:
;  APPLICANT: Lee, Frank
;  APPLICANT: Huszar, Dennis
;  APPLICANT: Gu, Wei
;  TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
;  TITLE OF INVENTION: REGULATION OF BODY WEIGHT
;  FILE REFERENCE: 7853-083
;  CURRENT APPLICATION NUMBER: US/08/870,511
;  CURRENT FILING DATE: 1997-06-06
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
;   LENGTH: 999
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (1)..(996)
US-08-870-511-7

  Query Match             41.1%;  Score 815.6;  DB 3;  Length 999;
  Best Local Similarity   89.0%;  Pred. No. 1.3e-188;
  Matches  881;  Conservative    0;  Mismatches  109;  Indels    0;  Gaps    0;

Qy        455 CACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGCAGCACCTACGGACA 514
              | ||   || |  || ||||||||||||||| ||| ||||||||||||||  ||| |||
Db          9 CTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGCAGCAGTTACAGACT 68

Qy        515 GCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGGGGATGCTACGAGCA 574
              |||| |||| |||| |||||||||||| ||||||||| | || || || ||||||||||
Db         69 GCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGAGGGTGCTACGAGCA 128

Qy        575 ACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGCTTGCTGGAGAACAT 634
              ||| || ||||| || |||||||| |||||||||| ||||| |||||| ||||||| ||
Db        129 ACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTCATCAGCTTGTTGGAGAATAT 188

Qy        635 TCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCACCCATGTACTTTTTCAT 694
              | ||||| |||||||||||||||||||||||||||||| ||||||||||||||||||||
Db        189 CTTAGTGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCCATGTACTTTTTCAT 248

Qy        695 CTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGGTCAGAGACCATCGT 754
              ||| ||| |||||||||| |||||||||||||||||||| || || ||||| ||||| |
Db        249 CTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGATCAGAAACCATTAT 308

Qy        755 CATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTCACGGTGAATATTGATAA 814
              ||||||||| || |||||||| |||||||| || |||||||||| ||||||||||||||
Db        309 CATCACCCTATTAAACAGTACAGATACGGATGCACAGAGTTTCACAGTGAATATTGATAA 368

Qy        815 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGCAGCCTGCTCTCAAT 874
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Db        369 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCACTTGCAGCCTGCTTTCAAT 428

Qy        875 TGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCATAACATCATGACGGT 934
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Db        429 TGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCATAACATTATGACAGT 488

Qy        935 GAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGCACGGTGTCAGGCATCTT 994
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Db        489 TAAGCGGGTTGGGATCAGCATAAGTTGTATCTGGGCAGCTTGCACGGTTTCAGGCATTTT 548

Qy        995 GTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 1054
              |||||||||||||| || |||| ||||||||||||||||||||||||||||||||||||
Db        549 GTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 608

Qy       1055 CATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATGGCCAGACTGCACAT 1114
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Db        609 CATGCTGGCTCTCATGGCTTCTCTCTATGTCCACATGTTCCTGATGGCCAGGCTTCACAT 668

Qy       1115 CAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCCAAGGGGCCAACATGAAGGG 1174
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Db        669 TAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCCAAGGTGCCAATATGAAGGG 728

Qy       1175 TGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGGGCTCCATTCTTCCT 1234
              || |||||||||||||| || ||||| ||||| || |||||||||| ||||||||||||
Db        729 AGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTGCTGGGCCCCATTCTTCCT 788

Qy       1235 CCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTGTGCTTCATGTCTCA 1294
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Db        789 CCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATTGTGTGTGCTTCATGTCTCA 848

Qy       1295 CTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGACCCTCTCATTTATGC 1354
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Db        849 CTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGATCCTCTGATTTATGC 908

Qy       1355 ACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCTCTGGG 1414
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Db        909 ACTCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCCCTGGG 968

Qy       1415 TGGCCTTTGTGACTTGTCTAGCAGATACTA 1444
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Db        969 AGGCCTTTGTGACTTGTCTAGCAGATATTA 998


RESULT 15
US-08-870-511-9
; Sequence 9, Application US/08870511
; Patent No. 6287763
; GENERAL INFORMATION:
;  APPLICANT: Lee, Frank
;  APPLICANT: Huszar, Dennis
;  APPLICANT: Gu, Wei
;  TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
;  TITLE OF INVENTION: REGULATION OF BODY WEIGHT
;  FILE REFERENCE: 7853-083
;  CURRENT APPLICATION NUMBER: US/08/870,511
;  CURRENT FILING DATE: 1997-06-06
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
;   LENGTH: 999
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (1)..(996)
US-08-870-511-9

  Query Match             41.1%;  Score 815.6;  DB 3;  Length 999;
  Best Local Similarity   89.0%;  Pred. No. 1.3e-188;
  Matches  881;  Conservative    0;  Mismatches  109;  Indels    0;  Gaps    0;

Qy        455 CACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGCAGCACCTACGGACA 514
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Db          9 CTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGCAGCAGTTACAGACT 68

Qy        515 GCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGGGGATGCTACGAGCA 574
              |||| |||| |||| |||||||||||| |||||||| | || || || ||||||||||
Db         69 GCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGAGGGTGCTACGAGCA 128

Qy        575 ACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGCTTGCTGGAGAACAT 634
              ||| || ||||| || |||||||| |||||||||| ||||| |||||| ||||||| ||
Db        129 ACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTCATCAGCTTGTTGGAGAATAT 188

Qy        635 TCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCACCCATGTACTTTTTCAT 694
              | ||||| |||||||||||||||||||||||||||||| ||||||||||||||||||||
Db        189 CTTAGTGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCCATGTACTTTTTCAT 248

Qy        695 CTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGGTCAGAGACCATCGT 754
              ||| ||| |||||||||| |||||||||||||||||||| || || ||||| ||||| |
Db        249 CTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGATCAGAAACCATTAT 308

Qy        755 CATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTCACGGTGAATATTGATAA 814
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Db        309 CATCACCCTATTAAACAGTACAGATATGGATGCACAGAGTTTCACAGTGAATATTGATAA 368

Qy        815 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGCAGCCTGCTCTCAAT 874
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Db        369 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGCAGCCTGCTTTCAAT 428

Qy        875 TGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCATAACATCATGACGGT 934
              ||||||||||||||||||||||||||||||| ||||| |||||||||||||||||| ||||| ||
Db        429 TGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCATAACATTATGACAGT 488

Qy        935 GAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGCACGGTGTCAGGCATCTT 994
              | ||||||||||||||| ||| ||||| |||||||| |||||||||| |||||||| ||
Db        489 TAAGCGGGTTGGGATCAGCATAAGTTGTATCTGGGCAGCTTGCACGGTTTCAGGCATTTT 548

Qy        995 GTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 1054
              ||||||||||||||| || |||| ||||||||||||||||||||||||||||||||||||
Db        549 GTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 608

Qy       1055 CATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATGGCCAGACTGCACAT 1114
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Db        609 CATGCTGGCTCTCATGGCTTCTCTCTATGTCCACATGTTCCTGATGGCCAGGCTTCACAT 668

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Db        669 TAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCCAAGGTGCCAATATGAAGGG 728

Qy       1175 TGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGGGCTCCATTCTTCCT 1234
              || |||||||||||||| || ||||| ||||| || |||||||||| ||||||||||
Db        729 AGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTGCTGGGCCCCATTCTTCCT 788

Qy       1235 CCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTGTGCTTCATGTCTCA 1294
              |||||| |||||||||||||||||||| |||||||||| |||||||||||||||||||||
Db        789 CCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATTGTGTGTGCTTCATGTCTCA 848

Qy       1295 CTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGACCCTCTCATTTATGC 1354
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Db        849 CTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGATCCTCTGATTTATGC 908

Qy       1355 ACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCTCTGGG 1414
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Db        909 ACTCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCCCTGGG 968

Qy       1415 TGGCCTTTGTGACTTGTCTAGCAGATACTA 1444
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Db        969 AGGCCTTTGTGACTTGTCTAGCAGATATTA 998
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9867.651 Million cell updates/sec

Title: US-09-884-211B-2
Perfect score: 1985
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 7297361 seqs, 3241162794 residues

Total number of hits satisfying chosen parameters: 14594722

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_NA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	1985	100.0	1985	10	US-09-884-211A-2	Sequence 2, Appli
2	1166.6	58.8	1708	10	US-09-884-211A-1	Sequence 1, Appli
3	968.6	48.8	1950	10	US-09-910-180-1	Sequence 1, Appli
4	958.2	48.3	1671	16	US-10-413-752-5	Sequence 5, Appli
5	939	47.3	1671	15	US-10-288-160-15	Sequence 15, Appl
6	939	47.3	1671	15	US-10-074-754-1	Sequence 1, Appli
7	899	45.3	1320	13	US-10-027-632-124866	Sequence 124866,
8	899	45.3	1320	17	US-10-027-632-124866	Sequence 124866,
9	840.8	42.4	1640	21	US-10-764-420-146	Sequence 146, App
10	818.8	41.2	999	15	US-10-225-567A-157	Sequence 157, App
11	818.8	41.2	999	17	US-10-305-720-1277	Sequence 1277, Ap
12	817.6	41.2	1030	16	US-10-373-355-1	Sequence 1, Appli
13	817.2	41.2	999	10	US-09-876-252-73	Sequence 73, Appl
14	817.2	41.2	999	17	US-10-417-820A-73	Sequence 73, Appl
15	817.2	41.2	999	19	US-10-723-955-73	Sequence 73, Appl
16	814	41.0	999	10	US-09-876-252-135	Sequence 135, App
17	814	41.0	999	17	US-10-417-820A-135	Sequence 135, App
18	814	41.0	999	19	US-10-723-955-135	Sequence 135, App
19	703.6	35.4	840	20	US-10-834-485-2	Sequence 2, Appli
20	703.6	35.4	840	20	US-10-816-304-2	Sequence 2, Appli
21	635.2	32.0	746	20	US-10-834-485-1	Sequence 1, Appli
22	635.2	32.0	746	20	US-10-816-304-1	Sequence 1, Appli
23	436	22.0	1650	17	US-10-369-022-39	Sequence 39, Appl
24	436	22.0	1650	17	US-10-305-720-1473	Sequence 1473, Ap
25	435.6	21.9	978	15	US-10-225-567A-159	Sequence 159, App
26	434	21.9	978	15	US-10-256-089-3	Sequence 3, Appli
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28	426	21.5	978	15	US-10-288-160-17	Sequence 17, Appl
29	424.8	21.4	1650	13	US-10-052-545-15	Sequence 15, Appl
30	406.6	20.5	1675	9	US-09-903-395-1	Sequence 1, Appli
31	406.6	20.5	1675	21	US-10-603-249-1	Sequence 1, Appli
c 32	398.2	20.1	940	16	US-10-029-386-25431	Sequence 25431, A
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36	396.6	20.0	1083	15	US-10-225-567A-155	Sequence 155, App
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38	393.4	19.8	972	10	US-09-826-509-522	Sequence 522, App
39	393.4	19.8	972	21	US-10-925-095-522	Sequence 522, App
40	387.4	19.5	1338	15	US-10-288-160-11	Sequence 11, Appl
41	306.6	15.4	1270	13	US-10-052-545-1	Sequence 1, Appli
42	306.6	15.4	1270	15	US-10-225-567A-161	Sequence 161, App
43	306.6	15.4	1270	15	US-10-007-926A-188	Sequence 188, App
44	306.6	15.4	1270	17	US-10-353-690-59	Sequence 59, Appl
45	306.6	15.4	2314	19	US-10-322-281-165	Sequence 165, App

ALIGNMENTS

RESULT 1
US-09-884-211A-2
; Sequence 2, Application US/09884211A
; Publication No. US20030032791A1
; GENERAL INFORMATION:
; APPLICANT: Alan et, al.
; TITLE OF INVENTION: NOVEL MELANOCORTIN-4 RECEPTOR SEQUENCES AND
; TITLE OF INVENTION: SCREENING ASSAYS TO IDENTIFY COMPOUNDS USEFUL
; TITLE OF INVENTION: IN REGULATING ANIMAL APPETITE AND METABOLIC RATE
; FILE REFERENCE: PC10743A
; CURRENT APPLICATION NUMBER: US/09/884,211A
; CURRENT FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: 60/213,909
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1985
; TYPE: DNA
; ORGANISM: Canine MC4R Nucleotide Sequence
US-09-884-211A-2

Query Match 100.0%; Score 1985; DB 10; Length 1985;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1985; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2
US-09-884-211A-1
; Sequence 1, Application US/09884211A
; Publication No. US20030032791A1
; GENERAL INFORMATION:
; APPLICANT: Alan et, al.
; TITLE OF INVENTION: NOVEL MELANOCORTIN-4 RECEPTOR SEQUENCES AND
; TITLE OF INVENTION: SCREENING ASSAYS TO IDENTIFY COMPOUNDS USEFUL
; TITLE OF INVENTION: IN REGULATING ANIMAL APPETITE AND METABOLIC RATE
; FILE REFERENCE: PC10743A
; CURRENT APPLICATION NUMBER: US/09/884,211A
; CURRENT FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: 60/213,909

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;  PRIOR FILING DATE: 2000-06-26
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 1708
;   TYPE: DNA
;   ORGANISM: Feline MC4R Nucleotide Sequence
US-09-884-211A-1

  Query Match             58.8%;  Score 1166.6;  DB 10;  Length 1708;
  Best Local Similarity   83.5%;  Pred. No. 3.3e-285;
  Matches 1418;  Conservative    0;  Mismatches  224;  Indels   57;  Gaps    6;

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Db         918 GTACCATAACATCATGACGGTCAGGCGGGTTGGGATCATCATAAGTTGTATCTGGGCAGC 977

Qy         974 TTGCACGGTGTCAGGCATCTTGTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTG 1033
               ||||||||| || ||| | |||||||||| ||||| ||||| | ||||||||||||||||
Db         978 TTGCACGGTTTCGGGCGTTTTGTTCATCATCTACTCAGACAGCAGTGCTGTCATCATCTG 1037

Qy        1034 CCTCATCACCATGTTCTTCACCATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTT 1093
               |||||||||||||||||||||||||||||| |||||||| |||||||| ||||||||||
Db        1038 CCTCATCACCATGTTCTTCACCATGCTGGCTCTCATGGCCTCTCTCTATGTCCACATGTT 1097

Qy        1094 CCTCATGGCCAGACTGCACATCAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCG 1153
               |||||||||||||||||||| |||||||| || |||||||||||| ||||||||||||
Db        1098 CCTCATGGCCAGACTGCACATTAAGAGAATTGCTGTCCTCCCGGGCACTGGCACCATCCG 1157

Qy        1154 CCAAGGGGCCAACATGAAGGGTGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGT 1213
               |||||||||||||||||||| |||||| |||||||||| |||||||||| || ||
Db        1158 CCAAGGGGCCAACATGAAGGGTGCAATTACCCTGACCATACTGATTGGGGTCTTTGTTGT 1217

Qy        1214 CTGCTGGGCTCCATTCTTCCTCCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATA 1273
               ||||||||| || |||||||||||||| ||||||||||||||||||||||||||||| ||
Db        1218 CTGCTGGGCCCCGTTCTTCCTCCACTTAATATTCTACATCTCTTGTCCCCAGAATCCTTA 1277

Qy        1274 CTGTGTGTGCTTCATGTCTCACTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCAT 1333
               |||||||||||||||||||||||||||||||| |||| |||| |||||||||||| ||||
Db        1278 CTGTGTGTGCTTCATGTCTCACTTTAACCTGTATCTCATACTGATCATGTGTAATTCCAT 1337

Qy        1334 CATCGACCCTCTCATTTATGCACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGAT 1393
               |||||||||||| |||||||||||||||||||||||| || ||||||||||||||||||
Db        1338 CATCGACCCTCTAATTTATGCACTCCGGAGCCAAGAACTAAGGAAAACCTTCAAAGAGAT 1397

Qy        1394 CATCTGTTGCTATCCTCTGGGTGGCCTTTGTGACTTGTCTAGCAGATACTAGCTGGGGAC 1453
               |||||||||||||||||| || ||||| ||||| |||||||||||||||| ||| | |
Db        1398 CATCTGTTGCTATCCTCTAGGCGGCCTCTGTGATTTGTCTAGCAGATACTAACTGTGCAG 1457

Qy        1454 AGAGGAAGTACTAAAAACATGCACCAGAGACTTCTTCATCCTCACACAACATGAACTGTG 1513
               |          || |||| |||| |||||||||||||| ||| ||| |||| ||
Db        1458 A----------TAGAAACGTGCATAAGAGACTTCTTCATTCTTACAGAACCGGAACATTG 1507

Qy        1514 TGCTTGGACAACAGCTGCTTCTTCAGTATAAGGCAGGAGTTGAGAATATCTGTTGCACAA 1573
               ||||| ||  ||    |  || || || ||||||| | ||||||| |||||||| | ||
Db        1508 TGCTTTGATGACCCTTTTCTCCTCTGTGTAAGGCATGGGTTGAGACTATCTGTTGTATAA 1567

Qy        1574 ATTCAACTTTATGATGTTTTGATGTGAAAAAAAAAATGCCCAGGCTCTGTACATTGCTAA 1633
               ||| || || ||||  ||||  ||  |  ||| |||||||| |||||||||| ||||
Db        1568 ATTTAAGTTCATGACTTTTTTTTTGGAATGGAAACAATGCCCAGTCTCTGTACATTTCTAA 1627

Qy        1634 TGTCATGCTACTTTTGGGCTGTGCATTGTTAATCCAT-TTCGACGCTGTAGACACTTTGA 1692
               |||| |||||||||| |||||| || |||||||||| ||  | | |||| |||| |||
Db        1628 TGTCTTGCTACTTTTTGGCTGTACAATGTTAATCCATATTATAGGTTGTAGGCACTATGA 1687

Qy        1693 ATTTCTAGAAAAGAAAAAA 1711
               || | || |||| ||||||
Db        1688 ATGTATAAAAAAAAAAAAA 1706


RESULT 3
US-09-910-180-1
; Sequence 1, Application US/09910180
; Publication No. US20030082678A1
; GENERAL INFORMATION:
;  APPLICANT: Hsiung, Hansen
;  APPLICANT:  Smith, Dennis
;  APPLICANT:  Zhang, Xing-Yue
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR REGULATING BODY WEIGHT IN BOVINE SPE
;  FILE REFERENCE: P-12621
;  CURRENT APPLICATION NUMBER: US/09/910,180
;  CURRENT FILING DATE:  2002-04-11
;  NUMBER OF SEQ ID NOS: 22
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 1950
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;   TYPE: DNA
;   ORGANISM: Bovine
US-09-910-180-1

  Query Match             48.8%;  Score 968.6;  DB 10;  Length 1950;
  Best Local Similarity   76.4%;  Pred. No. 6.8e-235;
  Matches 1328;  Conservative    0;  Mismatches  379;  Indels   32;  Gaps   10;

Qy        224 AGAAATCGAAGATGTTACAGTGAAGGTGATCGGAGCTGTACCTGGAAGACAGTAAGAGCT 283
              ||  |  | |||||  |    |||||  | |||  | ||||   || ||  |||| |  | |  | ||
Db         68 AGCAGCCTAAGATTTCCAAGTGATGCTGACCAGAGCCACACTTGAAAGAGACTGAAAACT 127

Qy        284 CCACTGCCAGCCTTTTGGAGCACGGGACAGGTACTCAACACCTGGCAGGCCAGCTGGATC 343
              |  | |||||  |  ||||||  ||||||  || || |||  | ||||  ||||       |
Db        128 TCCTTTCCAGC--TCCGGAGCATGGGACATTTATTC-ACAGCAGGCATGCCACTCTCCGC 184

Qy        344 CTCAGAACTTTGGGACG----CACGGAGAGGGGGAGAACATCACCGGGGCTCCCTGGCTG 399
              | |  ||||||  |   |      |   |      ||||||     | | ||||  || |
Db        185 CGCCTAACTTTCGTTTGGGGCAAGTCAAGACTGGAGAAAGGTGCTGAGGCTGCCAGATCC 244

Qy        400 GAGAGGCCGAATCAGTCCCGAGGGGGTCTGCATACACTTGTTGCAGGATGAACTCCACCC 459
              ||||   | |||||||  ||||||  |||  || ||           ||||||||  ||||
Db        245 AGGAGGTTCAGTCAGTCCAGAGGGGACCTGAATCCAAA---------ATGAACTCTACCC 295

Qy        460 TTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGCAGCACCTACGGACAGCACG 519
              |  |  || |||||||| |||||||||| ||||||||||||| || |||||  || |
Db        296 AGCCCCTTGGGATGCACACCTCTCTCCACTCCTGGAACCGCAGCGCCCACGGAATGCCCA 355

Qy        520 GCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGGGGATGCTACGAGCAACTCT 579
              ||| | || |||||||||  |  |||||||||  | ||||||| |||||  |||||  ||||
Db        356 CCAATGTCAGTGAGTCCCTGGCAAAAGGCTACTCGGACGGGGGGTGCTATGAGCAGCTCT 415

Qy        580 TCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGCTTGCTGGAGAACATTCTGG 639
              | ||||| || |||||||| |||||||||||||||||  |||||  |||||||  |||||||
Db        416 TTGTCTCTCCCGAGGTGTTTGTGACTCTGGGGGTCATCAGCTTGTTGGAGAATATTCTGG 475

Qy        640 TGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCACCCATGTACTTTTTCATCTGTA 699
              |||||||||| ||||||||||||||||||||||||||||||||||||||||||||||| |
Db        476 TGATCGTGGCCATAGCCAAGAACAAGAATCTGCACTCACCCATGTACTTTTTCATCTGCA 535

Qy        700 GCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGGTCAGAGACCATCGTCATCA 759
              |||||||||||| || ||| |||||||||||||||||||||||| || |||||  |||||||
Db        536 GCCTGGCTGTGGCTGACATGTTGGTGAGCGTTTCCAACGGGTCGGAAACCATTGTCATCA 595

Qy        760 CCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTCACGGTGAATATTGATAATGTCA 819
              ||||| |||||||  |||||  |||||||||||||  |||||||||  |||||||  |||||||
Db        596 CCCTGCTGAACAGCACGGACACGGACGCGCAGAGCTTCACGGTGGATATTGACAATGTCA 655

Qy        820 TTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGCAGCCTGCTCTCAATTGCAG 879
              |||||||||||||||||||||||||||||  ||||| || ||||||  |||| || || || |
Db        656 TTGACTCGGTGATCTGTAGCTCCTTGCTTGCCTCCATCTGCAGCTTGCTGTCGATCGCGG 715

Qy        880 TGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCATAACATCATGACGGTGAGGC 939
              ||||||||||||  |||||||  |||||  |||||||||||||||||||||||||||  ||
Db        716 TGGACAGGTACTTCACTATCTTCTATGCGCTCCAGTACCATAACATCATGACGGTGAAGC 775

Qy        940 GGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGCACGGTGTCAGGCATCTTGTTCA 999
              ||||  | |||||  ||||||    |||||||||  || ||||||||||  |||  |||||||||
Db        776 GGGTGGCGATCACCATCAGCGCCATCTGGGCAGCCTGCACGGTGTCGGGCGTCTTGTTCA 835

Qy       1000 TCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATCACCATGTTCTTCACCATGC 1059
              |||||||||  |||||  |  ||||||  |||||||||||||||||  ||||||||||||||
Db        836 TCATTTACTCAGACAGCAGTGCTGTTATCATCTGCCTCATCACCGTGTTCTTCACCATGC 895

Qy       1060 TGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATGGCCAGACTGCACATCAAGA 1119
              ||||  |||||||| |||||||| ||||||||||||||||||||||||||||  |||||  ||||
Db        896 TGGCTCTCATGGCGTCTCTCTATGTCCACATGTTCCTCATGGCCAGACTCCACATTAAGA 955

Qy       1120 GAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCCAAGGGGCCAACATGAAGGGTGCCA 1179
              | |||||  |||||  || ||  | ||||||||||||||  || ||||||||||||||  || |
Db        956 GGATCGCGGTCCTGCCAGGTAGCGGCACCATCCGCCAGGGCGCCAACATGAAGGGGGCGA 1015

Qy       1180 TTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGGGCTCCATTCTTCCTCCACT 1239
              |||||  |||||||||  ||  ||||||||  |||||||||  |||||||  |||  |||
Db       1016 TTACCCTGACCATACTGATCGGGGTCTTTGTTGTCTGCTGGGCCCCCTTCTTCCTGCACC 1075

Qy       1240 TGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTGTGCTTCATGTCTCACTTTA 1299
              ||||||||||||||||||||||||||||  ||||||||||||||  ||||||||||||||||
Db       1076 TGATATTCTACATCTCTTGTCCCCAGAACCCATACTGTGTGTGTTTCATGTCTCACTTTA 1135

Qy       1300 ACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGACCCTCTCATTTATGCACTCC 1359
              ||  ||||||||||  ||  ||||||||  ||  ||||||||  ||||||||  ||||||||  || |
Db       1136 ACCTGTACCTCATCCTCATCATGTGCAATTCCATCATTGACCCTCTGATTTATGCCCTGC 1195

Qy       1360 GGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCTCTGGGTGGCC 1419
              ||||||||||  ||||||||||||||||||||||||||||  |||||||  ||||||  |||||||
Db       1196 GGAGCCAAGAACTGAGGAAAACCTTCAAAGAGATCATTTGTTGCTCTCCTCTAGGTGGCC 1255

Qy       1420 TTTGTGACTTGTCTAGCAGATACTAGCTGGGGACAGAGGAAGTACTAAAAACATGCACCA 1479
              | |||||  ||||||||||||||  ||  ||||||||  | |    | |||||  ||| ||   |
Db       1256 TCTGTGATTTGTCTAGCAGATATTAAATGGGGACAAACGCGATGCTAAACACAAGCTTAA 1315

Qy       1480 GAGACTTCTTCATCCTCA----CACAACATGAACTGTGTGCTTGGACAACAGCTGCTTCT 1535
              |||||||  ||  | ||||     |||||  |||||  ||  ||   |    | ||||||  ||||
Db       1316 GAGACTTTCTCCTTCTCATATGTACAACCTGAACAGTCTGTATCAGCCACAGCTTTTTCT 1375

Qy       1536 TCAGTATAAGGCAGGAGTTGAGAATATCTGTTGCACAAATTCAACTTTATGATGTTTTGA 1595
              || ||  ||  |||| |   |||  |||  |||  |||  |   |  ||  ||  |||  ||||  ||||
Db       1376 TCTGTGTAGGGCATGGAGTGAAAATTTCTATTGTATCAGTTGAAGTTTGTGATTTTTTTC 1435

Qy       1596 TGTGAAAAAAAAAATGCCCAGGCTCTGTACATTGCTAATGTCATGCTACTTTTGGGCTGT 1655
              ||      |||  |  |||||||  ||   ||   |||   ||||||||||;||||||   ||||||
Db       1436 TGATGTGAAACAG-TGCCCAGTCTTGGTGTATTTTAATGTCATGCTACTTTCTGGCTGT 1494

Qy       1656 GCATTGTTAATCCATTTC-GACGCTGTAGACACTTTGAATTTCTAGAAAA-----GAAAA 1709
                 | |||  ||||||    ||   |  |  |||  ||||  ||  ||||  ||  ||||       ||||
Db       1495 AAAATGTGAATCCACATCACAGGTTATAGGCACTATGCATTTATAAAAAAAGAAGAAAAA 1554

Qy       1710 AAGCTTCCATTAAAAGCATATCAGTGT----TTCTTGTTATTCACGAGGATTTGGCACTT 1765
              |||      ||  |  ||  ||  ||||||     ||||||||||  ||  |||||  ||  |||||
Db       1555 AAGTCCTTATGAGGAGTTTAACAGTGTTTCCTTCTTGTTATTTACAAGGATGTGACACTT 1614

Qy       1766 TGCTTGCTTTAGGAAACATAGAAATCATAGAATCATTAACTATGTAGCCTGATAAGTAAC 1825
              ||||||||||  |  |||||  |||||||  ||  |||||||  |||  |   |  |  |
Db       1615 TGCTTGCTTT-TGTAACATGGAAATCACAGCTTCATTAAGTATATCCTCATAAGTGGTTT 1673

Qy       1826 TTCTTATATTATACTATATCACATGAAATGTGCAGATTTGAATGTAGCATGGGGGGTGGA 1885
              ||  |     |          |||| |||  | |||||  | |||||    |||  ||
Db       1674 TTTTATGTTATACTTTACAACACTGAAGTGTAAAAATTTGATTCTAGCATTTAGGGGAGA 1733

Qy       1886 TATTGAACAATAGATACTTGGTCATTAAAACAATCAACTGAAATTTTAAGTAATAAAAT 1944
              ||      |                 ||| ||  | |||||||| | |||||  |||
Db       1734 AATATTGAGAACATATTGCTTAATCATAAAAAACAAGCTGAAATTTCAGGTAATTTAAT 1792


RESULT 4
US-10-413-752-5
; Sequence 5, Application US/10413752
; Publication No. US20030171295A1
; GENERAL INFORMATION:
;  APPLICANT: Frank Lee
;  APPLICANT:  Dennis Huszar
;  APPLICANT:  Wei Gu
;  TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL
;  TITLE OF INVENTION:  IN THE REGULATION OF BODY WEIGHT
;  FILE REFERENCE: 7853-145
;  CURRENT APPLICATION NUMBER: US/10/413,752
;  CURRENT FILING DATE:  2003-04-14
;  PRIOR APPLICATION NUMBER: US/09/322,695
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 08/662,560
;  PRIOR FILING DATE: 1996-06-10
;  NUMBER OF SEQ ID NOS: 12
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 5
;   LENGTH: 1671
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;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-413-752-5

  Query Match             48.3%;  Score 958.2;  DB 16;  Length 1671;
  Best Local Similarity   80.2%;  Pred. No. 2.7e-232;
  Matches 1261;  Conservative    0;  Mismatches  292;  Indels   20;  Gaps   11;

Qy        144 AAAAAAGAAAAAGAAAAAAGAAAAAAAGAAAAAAAAGAAAAAGCAAAGAGCAGACTCTTT 203
              ||    | ||  |  |||     ||  | |     | ||  | ||||||||||||||||||||
Db         94 AATGCATAAGATTAAAGTTAAAGCAGAAGTGAGAACAAGAAAGCAAAGAGCAGACTCTTT 153

Qy        204 GAACTAAGAATGAGCATTTCAGAAATCGAAGATGTTACAGTGAAGGTGATCGGAGCTGTA 263
              ||||  |||||||  ||||  |||  | ||||| ||| |||||  | ||||  |||  |||
Db        154 CAACTGAGAATGAATATTTT-GAAGCCCAAGATTTTAAAGTGATGATGATTAGAGTCGTA 212

Qy        264 CCTGGAAGACAGTAAGAGCTCCACTGCCAGCCTTTTGGAGCACGGGACAGGTACTCAACA 323
              |||  ||||  |  |||  |  |||||    | |||    |   |   |  | ||||  ||||| |||
Db        213 CCTAAAAGAGACTAAAAACTCCATGTCAAGC---TCTGGACTTGTGACATTTACTC-ACA 268

Qy        324 CCTGGCAGGCCAGCTGGATCCTCAGAACTTTGGGACGCACGGAGAGGGGGAGAACATCAC 383
              | ||||  |  ||   |  | |||||  ||||||   |||   |   |||   ||||  | ||  ||
Db        269 GCAGGCATGGCAATTTTAGCCTCACAACTTTCAGACAGATAAAGACTTGGAGGAAATAAC 328

Qy        384 CG---GGGCTCCCTGGCTGGAGAGGCCGAATCAGTCCCGAGGGGGTCTGCATACACTTGT 440
              |    | |||||||  |     ||||   |||||  |  |  |  |||    |||  |  |  ||   |
Db        329 TGAGACGACTCCCTGACCCAGGAGGTTAAATCAATTCAGGGGGACACTGGA-ATTCTCCT 387

Qy        441 TGCAGGATGAACTCCACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGC 500
              |||  |||      |  ||    ||  |  ||  ||||||||||||||  |||  ||||||||||
Db        388 GCCAGCATGGTGAACTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGC 447

Qy        501 AGCACCTACGGACAGCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGG 560
              ||||  |||  |||  ||||  ||||  ||||  ||||||||||||  |||||||||  |  ||  ||
Db        448 AGCAGTTACAGACTGCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGA 507

Qy        561 GGATGCTACGAGCAACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGC 620
              ||  ||||||||||||||  ||  |||||  ||  ||||||||  ||||||||||  ||||||  |||
Db        508 GGGTGCTACGAGCAACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTCATCAGC 567

Qy        621 TTGCTGGAGAACATTCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCACCC 680
              |||  ||||||||  ||   |  |||||  ||||||||||||||||||||||||||||  ||||||
Db        568 TTGTTGGAGAATATCTTAGTGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCC 627

Qy        681 ATGTACTTTTTCATCTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGG 740
              ||||||||||||||||  |||  ||||||||||  ||||||||||||||||||||  ||  ||
Db        628 ATGTACTTTTTCATCTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGA 687

Qy        741 TCAGAGACCATCGTCATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTCACG 800
              |||||  |||||  ||||||||||  ||  ||||||||  ||||||||||  ||  ||||||||||
Db        688 TCAGAAACCATTATCATCACCCTATTAAACAGTACAGATACGGATGCACAGAGTTTCACA 747

Qy        801 GTGAATATTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGC 860
              ||||||||||||||||||||||||||||||||||||||||||||||||||  ||  ||||||
Db        748 GTGAATATTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGC 807

Qy        861 AGCCTGCTCTCAATTGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCAT 920
              ||||||||  ||||||||||||||||||||||||||||||  |||||  ||||||||||||
Db        808 AGCCTGCTTTCAATTGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCAT 867

Qy        921 AACATCATGACGGTGAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGCACG 980
              |||||  |||||  ||  |  ||||||||||||||  |||  |||||  ||||||||  |||||||||
Db        868 AACATTATGACAGTTAAGCGGGTTGGGATCAGCATAAGTTGTATCTGGGCAGCTTGCACG 927

Qy        981 GTGTCAGGCATCTTGTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATC 1040
              ||  ||||||||  ||||||||||||||||||  ||  ||||  ||||||||||||||||||||||
Db        928 GTTTCAGGCATTTTGTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATC 987

Qy       1041 ACCATGTTCTTCACCATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATG 1100
              ||||||||||||||||||||||  ||||||||||||||||  ||||||||||||||  |||
Db        988 ACCATGTTCTTCACCATGCTGGCTCTCATGGCTTCTCTCTATGTCCACATGTTCCTGATG 1047

Qy       1101 GCCAGACTGCACATCAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCCAAGGG 1160
              |||||  ||  |||||  |||||  ||  ||  ||||||||  |||||  ||  ||||||||||||
Db       1048 GCCAGGCTTCACATTAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCCAAGGT 1107

Qy       1161 GCCAACATGAAGGGTGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGG 1220
              |||||  |||||||||  ||  ||||||||||||||  ||  |||||  |||||  ||  |||||||||
Db       1108 GCCAATATGAAGGGAGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTGCTGG 1167

Qy       1221 GCTCCATTCTTCCTCCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTG 1280
              ||  ||||||||||||||||||  ||||||||||||||||||||  ||||||||||  ||||||
Db       1168 GCCCCATTCTTCCTCCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATTGTGTG 1227

Qy       1281 TGCTTCATGTCTCACTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGAC 1340
              ||||||||||||||||||||||||||||  |||||  ||||||||||||||  ||  ||||||||
Db       1228 TGCTTCATGTCTCACTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGAT 1287

Qy       1341 CCTCTCATTTATGCACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGT 1400
              |||||  ||||||||||||||||||||  |||||  ||||||||||||||||||||||||||||||||
Db       1288 CCTCTGATTTATGCACTCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTGT 1347

Qy       1401 TGCTATCCTCTGGGTGGCCTTTGTGACTTGTCTAGCAGATACTAGCTGGGGACAGAGGAA 1460
              |||||||  |||||  ||||||||||||||||||||||||||||  ||  ||||||||||  |
Db       1348 TGCTATCCCCTGGGAGGCCTTTGTGACTTGTCTAGCAGATATTAAATGGGGACAGAGCAC 1407

Qy       1461 GTACTAAA--AACATGCACCAGAGACTTCTTCATCCTCACACAACATGAACTGTGTGCTT 1518
              | | ||  |  ||||||||  ||||||||  ||||  ||  ||  |  ||  ||||    |||  |||
Db       1408 GCAATATAGGAACATGCATAAGAGACTTTTTCACTCTTACCCTACCTGAATATTGTACTT 1467

Qy       1519 GGACAACAGCTGCTTCTTCAGTATAAGGCAGGAGTTGAGAATATCTGTTGCACAAATTCA 1578
              |||||||||    |||||  ||  ||  ||  |    ||||||  |||||  |||    |||||  |
Db       1468 CTGCAACAGCTTTCTCTTCCGTGTAGGGTACTGGTTGAG-ATATCCATTGTGTAAATTTA 1526

Qy       1579 ACTTTATGATGTTTTGATGTGAAAAAAAAAATGCCCAGGCTCTGTA-CATTGCTAATGTC 1637
              |   ||||||  |||          | ||||||||||||  |||||||   |||  |  ||||||
Db       1527 AGCCTATGATTTTT-----AATGAGAAAAAATGCCCAGTCTCTGTATTATTTCCAATGTC 1581

Qy       1638 ATGCTAC-TTTTGGGCTGTGCATTGTTAATCCAT-TTCGACGCTGTAGACACTTTGAATT 1695
              |||||||  ||||  |||   |  | |  ||||  ||  ||   |  |  |||||  ||||  ||  |||
Db       1582 ATGCTACTTTTTTGGCCATAAAATATGAATCTATGTTATAGGTTGTAGGCACTGTGGATT 1641

Qy       1696 TCTAGAAAAGAAA 1708
              |   |  |||  |||
Db       1642 TACAAAAAGAAAA 1654


RESULT 5
US-10-288-160-15
; Sequence 15, Application US/10288160
; Publication No. US20030105024A1
;   GENERAL INFORMATION:
;        APPLICANT: Cone, Roger D
;                   Fan, Wei
;                   Boston, Bruce A
;                   Kesterton, Robert A
;                   Lu, Dongsi
;                   Chen, Wenbiao
;        TITLE OF INVENTION: Methods and Reagents for Discovering and
;                            Using Mammalian Melanocortin Receptor Agonists and Antagoni
;                            To Modulate Feeding Behavior in Animals
;        NUMBER OF SEQUENCES: 19
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
;             STREET: 300 South Wacker Drive
;             CITY: Chicago
;             STATE: IL
;             COUNTRY: USA
;             ZIP: 60606
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.25
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/288,160
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;             FILING DATE: 05-No. US20030105024A1-2002
;             CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/08/706,281
;             FILING DATE: 04-SEP-1996
;       ATTORNEY/AGENT INFORMATION:
;             NAME: No. US20030105024A1nan, Kevin E
;             REGISTRATION NUMBER: 35,303
;             REFERENCE/DOCKET NUMBER: 96,886
;       TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 312-913-0001
;             TELEFAX: 312-913-0002
;             TELEX: <Unknown>
;   INFORMATION FOR SEQ ID NO: 15:
;       SEQUENCE CHARACTERISTICS:
;             LENGTH: 1671 base pairs
;             TYPE: nucleic acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;       MOLECULE TYPE: cDNA to mRNA
;       FEATURE:
;             NAME/KEY:  5'UTR
;             LOCATION:  1..393
;       FEATURE:
;             NAME/KEY:  CDS
;             LOCATION:  394..1389
;       FEATURE:
;             NAME/KEY:  3'UTR
;             LOCATION:  1390..1671
;       SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-10-288-160-15

  Query Match             47.3%;  Score 939;  DB 15;  Length 1671;
  Best Local Similarity   79.4%;  Pred. No. 2.1e-227;
  Matches 1249;  Conservative    0;  Mismatches  304;  Indels   20;  Gaps   11;

Qy        144 AAAAAAGAAAAAGAAAAAAGAAAAAAAGAAAAAAAAGAAAAAGCAAAGAGCAGACTCTTT 203
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Db         94 AATGCATAAGATTAAAGTTAAAGCAGAAGTGAGAACAAGAAAGCAAAGAGCAGACTCTTT 153

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Db        154 CAACTGAGAATGAATATTTT-GAAGCCCAAGATTTTAACGTGATGATGATTAGAGTCGTA 212

Qy        264 CCTGGAAGACAGTAAGAGCTCCACTGCCAGCCTTTTGGAGCACGGGACAGGTACTCAACA 323
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Qy        324 CCTGGCAGGCCAGCTGGATCCTCAGAACTTTGGGACGCACGGAGAGGGGGAGAACATCAC 383
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Db        269 GCAGGCATGGCAATTTTAGCCTCACAACTTTCAGACAGATAAAGACTTGGAGGAAATAAC 328

Qy        384 CG---GGGCTCCCTGGCTGGAGAGGCCGAATCAGTCCCGAGGGGGTCTGCATACACTTGT 440
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Db        329 TGAGACGACTCCCTGACCCAGGAGGTTAAATCAATTCAGGGGGACACTGGA-ATTCTCCT 387

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Db        388 GCCAGCATGGTGAACTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGC 447

Qy        501 AGCACCTACGGACAGCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGG 560
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Db        448 AGCAGTTACAGACTGCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGA 507

Qy        561 GGATGCTACGAGCAACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGC 620
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Db        508 GGGTGCTACGCGCAACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTGATCAGC 567

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Db        568 TTGTTGGAGAATATCTTAGAGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCC 627

Qy        681 ATGTACTTTTTCATCTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGG 740
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Db        628 ATGTACTTTTTCATCTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGA 687

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Db        688 TCAGAAACCATTATCATCACCCTATTAAACCGTACAGATACGGATGCACAGAGTTTCACA 747

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Db        748 GTGAATATTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGC 807

Qy        861 AGCCTGCTCTCAATTGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCAT 920
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Qy        981 GTGTCAGGCATCTTGTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATC 1040
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Qy       1161 GCCAACATGAAGGGTGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGG 1220
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Qy       1221 GCTCCATTCTTCCTCCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTG 1280
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Db       1228 TGCTTCATGTCTCACTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGAT 1287

Qy       1341 CCTCTCATTTATGCACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGT 1400
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Db       1468 CTGCAACAGCTTTCTCTTCCGTGTAGGGTACTGGTTGAG-ATATCCATTGTGTAAATTTA 1526

Qy       1579 ACTTTATGATGTTTTGATGTGAAAAAAAAAATGCCCAGGCTCTGTA-CATTGCTAATGTC 1637
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Db       1527 AGCCTATGATTTTT-----AATGAGAAAAAATGCCCAGTCTCTGTATTATTTCCAATCTC 1581

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RESULT 6
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US-10-074-754-1
; Sequence 1, Application US/10074754
; Publication No. US20030113263A1
; GENERAL INFORMATION:
;  APPLICANT: Marks, Daniel L.
;  APPLICANT:  Cone, Roger D.
;  TITLE OF INVENTION: Methods and Reagents for Discovering and Using
;  TITLE OF INVENTION:  Mammalian Melanocortin Receptor Antagonists to Treat
;  TITLE OF INVENTION:  Cachexia
;  FILE REFERENCE: 96-886
;  CURRENT APPLICATION NUMBER: US/10/074,754
;  CURRENT FILING DATE:  2002-02-13
;  NUMBER OF SEQ ID NOS: 10
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 1671
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (394)..(1389)
US-10-074-754-1

  Query Match             47.3%;  Score 939;  DB 15;  Length 1671;
  Best Local Similarity   79.4%;  Pred. No. 2.1e-227;
  Matches 1249;  Conservative    0;  Mismatches  304;  Indels   20;  Gaps   11;

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Qy        441 TGCAGGATGAACTCCACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGC 500
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Db        388 GCCAGCATGGTGAACTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGC 447

Qy        501 AGCACCTACGGACAGCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGG 560
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Db        448 AGCAGTTACAGACTGCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGA 507

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Db        508 GGGTGCTACGCGCAACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTGATCAGC 567

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Db        568 TTGTTGGAGAATATCTTAGAGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCC 627

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Db       1228 TGCTTCATGTCTCACTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGAT 1287

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Db       1288 CCTCTGATTTATGCACTCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTCT 1347

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Db       1348 TCCTATCCCCTGGGAGGCCTTTGTGACTTGTCTAGCAGATATTAAATGGGGACAGAGCAC 1407

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Qy       1696 TCTAGAAAAGAAA 1708
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RESULT 7
US-10-027-632-124866
; Sequence 124866, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
;  APPLICANT: Wang, David G.
;  TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
;  TITLE OF INVENTION:  Polymorphisms in the Human Genome
;  FILE REFERENCE: 108827.129
;  CURRENT APPLICATION NUMBER: US/10/027,632
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;  CURRENT FILING DATE:  2002-04-30
;  PRIOR APPLICATION NUMBER: US 60/218,006
;  PRIOR FILING DATE: 2000-07-12
;  PRIOR APPLICATION NUMBER: US 60/198,676
;  PRIOR FILING DATE: 2000-04-20
;  PRIOR APPLICATION NUMBER: US 60/193,483
;  PRIOR FILING DATE: 2000-03-29
;  PRIOR APPLICATION NUMBER: US 60/185,218
;  PRIOR FILING DATE: 2000-02-24
;  PRIOR APPLICATION NUMBER: US 60/167,363
;  PRIOR FILING DATE: 1999-11-23
;  PRIOR APPLICATION NUMBER: US 60/156,358
;  PRIOR FILING DATE: 1999-09-28
;  PRIOR APPLICATION NUMBER: US 60/146,002
;  PRIOR FILING DATE: 1999-08-09
;  NUMBER OF SEQ ID NOS: 325720
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 124866
;   LENGTH: 1320
;   TYPE: DNA
;   ORGANISM: Human
US-10-027-632-124866

  Query Match             45.3%;  Score 899;  DB 13;  Length 1320;
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  Matches 1090;  Conservative    1;  Mismatches  221;  Indels    9;  Gaps    5;

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              ||||||||||||||||||||||||||||||||||||||||||| || || ||||||||||||
Db        655 TTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGCAGCCTGC 714

Qy        868 TCTCAATTGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCATAACATCA 927
              | |||||||||||||||||||||||||||||||||| ||||| |||||||||||||||| |
Db        715 TTTCAATTGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCATAACATTA 774

Qy        928 TGACGGTGAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGCACGGTGTCAG 987
              |||| || | |||||||||||||:||| ||||| |||||||| |||||||||| ||||
Db        775 TGACAGTTAAGCGGGTTGGGATCAKCATAAGTTGTATCTGGGCAGCTTGCACGGTTTCAG 834

Qy        988 GCATCTTGTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATCACCATGT 1047
              |||| |||||||||||||||| || |||| |||||||||||||||||||||||||||||
Db        835 GCATTTTGTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATCACCATGT 894

Qy       1048 TCTTCACCATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATGGCCAGAC 1107
              |||||||||||||||| |||||||||||||||| |||||||||||||| ||||||| |
Db        895 TCTTCACCATGCTGGCTCTCATGGCTTCTCTCTATGTCCACATGTTCCTGATGGCCAGGC 954

Qy       1108 TGCACATCAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCCAAGGGGCCAACA 1167
              | ||||| ||||| || || |||||||| ||||| ||  |||||||||||| ||||| |
Db        955 TTCACATTAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCCAAGGTGCCAATA 1014

Qy       1168 TGAAGGGTGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGGGCTCCAT 1227
              ||||||| || |||||||||||||| || ||||| ||||| || |||||||||| ||||
Db       1015 TGAAGGGAGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTGCTGGGCCCCAT 1074

Qy       1228 TCTTCCTCCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTGTGCTTCA 1287
              |||||||||||| |||||||||||||||||||| |||||||||| ||||||||||||
Db       1075 TCTTCCTCCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATTGTGTGTGCTTCA 1134

Qy       1288 TGTCTCACTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGACCCTCTCA 1347
              |||||||||||||||||| ||||| |||||||||||| || |||||||| ||||| |
Db       1135 TGTCTCACTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGATCCTCTGA 1194

Qy       1348 TTTATGCACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATC 1407
              |||||||||||||||| ||||| |||||||||||||||||||||||||||||||||||||
Db       1195 TTTATGCACTCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATC 1254

Qy       1408 CTCTGGGTGGCCTTTGTGACTTGTCTAGCAGATACTAGCTGGGGACAGAGGAAGTACTAA 1467
              | ||||| |||||||||||||||||||||||||| ||  |||||||||| | | | ||
Db       1255 CCCTGGGAGGCCTTTGTGACTTGTCTAGCAGATATTAAATGGGGACAGAGCACGCAATAT 1314

Qy       1468 A 1468
              |
Db       1315 A 1315


RESULT 8
US-10-027-632-124866
; Sequence 124866, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
;  APPLICANT: Wang, David G.
;  TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
;  TITLE OF INVENTION:  Polymorphisms in the Human Genome
;  FILE REFERENCE: 108827.129
;  CURRENT APPLICATION NUMBER: US/10/027,632
;  CURRENT FILING DATE:  2002-04-30
;  PRIOR APPLICATION NUMBER: US 60/218,006
;  PRIOR FILING DATE: 2000-07-12
;  PRIOR APPLICATION NUMBER: US 60/198,676
;  PRIOR FILING DATE: 2000-04-20
;  PRIOR APPLICATION NUMBER: US 60/193,483
;  PRIOR FILING DATE: 2000-03-29
;  PRIOR APPLICATION NUMBER: US 60/185,218
;  PRIOR FILING DATE: 2000-02-24
;  PRIOR APPLICATION NUMBER: US 60/167,363
;  PRIOR FILING DATE: 1999-11-23
;  PRIOR APPLICATION NUMBER: US 60/156,358
;  PRIOR FILING DATE: 1999-09-28
;  PRIOR APPLICATION NUMBER: US 60/146,002
;  PRIOR FILING DATE: 1999-08-09
;  NUMBER OF SEQ ID NOS: 325720
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;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 124866
;   LENGTH: 1320
;   TYPE: DNA
;   ORGANISM: Human
US-10-027-632-124866

  Query Match             45.3%;  Score 899;  DB 17;  Length 1320;
  Best Local Similarity   82.5%;  Pred. No. 2.6e-217;
  Matches 1090;  Conservative    1;  Mismatches  221;  Indels    9;  Gaps    5;

Qy        151 AAAAAGAAAAAAGAAAAAAAGAAAAAAAAGAAAAAGCAAAGAGCAGACTCTTTGAACTAA 210
              || |  |||     ||  | |     | ||  | ||||||||||||||||||||| |||| |
Db          1 AAGATTAAAGTTAAAGCAGAAGTGAGAACAAGAAAGCAAAGAGCAGACTCTTTCAACTGA 60

Qy        211 GAATGAGCATTTCAGAAATCGAAGATGTTACAGTGAAGGTGATCGGAGCTGTACCTGGAA 270
              ||||||  ||||  |||  | |||||  ||| |||||  | ||||  |||  ||||||  ||
Db         61 GAATGAATATTTT-GAAGCCCAAGATTTTAAAGTGATGATGATTAGAGTCGTACCTAAAA 119

Qy        271 GACAGTAAGAGCTCCACTGCCAGCCTTTTGGAGCACGGGACAGGTACTCAACACCTGGCA 330
              || | ||| | |||||    | |||   |  |   |  | ||||  |||||  ||| | ||||
Db        120 GAGACTAAAAACTCCATGTCAAGC---TCTGGACTTGTGACATTTACTC-ACAGCAGGCA 175

Qy        331 GGCCAGCTGGATCCTCAGAACTTTGGGACGCACGGAGAGGGGGAGAACATCACCG---GG 387
              | ||  |  | |||||  ||||||  |||  |   |||  ||||  | ||  ||  |   |
Db        176 TGGCAATTTTAGCCTCACAACTTTCAGACAGATAAAGACTTGGAGGAAATAACTGAGACG 235

Qy        388 GCTCCCTGGCTGGAGAGGCCGAATCAGTCCCGAGGGGGTCTGCATACACTTGTTGCAGGA 447
              |||||||  |    ||||   |||||  | |  | |||   |||  |  |   ||  |  ||| |
Db        236 ACTCCCTGACCCAGGAGGTTAAATCAATTCAGGGGGACACTGGA-ATTCTCCTGCCAGCA 294

Qy        448 TGAACTCCACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGCAGCACCT 507
              ||      | ||    ||  |  || ||||||||||||||  ||| ||||||||||||||  |
Db        295 TGGTGAACTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGCAGCAGTT 354

Qy        508 ACGGACAGCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGGGGATGCT 567
              || ||| |||| |||| |||| ||||||||||| |||||||| | || || || ||||
Db        355 ACAGACTGCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGAGGGTGCT 414

Qy        568 ACGAGCAACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGCTTGCTGG 627
              |||||||||| || ||||| || |||||||| |||||||||| ||||| ||||||  |||
Db        415 ACGAGCAACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTCATCAGCTTGTTGG 474

Qy        628 AGAACATTCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCACCCATGTACT 687
              ||||  ||   | |||||  |||||||||||||||||||||||||||||  ||||||||||||
Db        475 AGAATATCTTAGTGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCCATGTACT 534

Qy        688 TTTTCATCTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGGTCAGAGA 747
              |||||||||  ||| |||||||||  |||||||||||||||||||  || || |||||  |
Db        535 TTTTCATCTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGATCAGAAA 594

Qy        748 CCATCGTCATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTCACGGTGAATA 807
              ||||  |||||||||| || ||||||| |||||||| || ||||||||||| |||||||
Db        595 CCATTATCATCACCCTATTAAACAGTACAGATACGGATGCACAGAGTTTCACAGTGAATA 654

Qy        808 TTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGCAGCCTGC 867
              |||||||||||||||||||||||||||||||||||||||||||||| || || ||||||||||||
Db        655 TTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGCAGCCTGC 714

Qy        868 TCTCAATTGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCATAACATCA 927
              | |||||||||||||||||||||||||||||||| ||||| |||||||||||||||| |
Db        715 TTTCAATTGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCATAACATTA 774

Qy        928 TGACGGTGAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGCACGGTGTCAG 987
              |||| || | |||||||||||||:||| ||||| |||||||| |||||||||| ||||
Db        775 TGACAGTTAAGCGGGTTGGGATCAKCATAAGTTGTATCTGGGCAGCTTGCACGGTTTCAG 834

Qy        988 GCATCTTGTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATCACCATGT 1047
              |||| |||||||||||||||| || |||| ||||||||||||||||||||||||||||||
Db        835 GCATTTTGTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATCACCATGT 894

Qy       1048 TCTTCACCATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATGGCCAGAC 1107
              |||||||||||||||| |||||||||||||||| |||||||||||||| |||||||| |

Db        895 TCTTCACCATGCTGGCTCTCATGGCTTCTCTCTATGTCCACATGTTCCTGATGGCCAGGC 954

Qy       1108 TGCACATCAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCCAAGGGGCCAACA 1167
              | |||||  |||||  ||  ||  |||||||| |||||  ||  |||||||||||||  ||||| |
Db        955 TTCACATTAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCCAAGGTGCCAATA 1014

Qy       1168 TGAAGGGTGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGGGCTCCAT 1227
              |||||||  ||  ||||||||||||||||  ||  |||||  |||||  ||  ||||||||||||  ||||
Db       1015 TGAAGGGAGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTGCTGGGCCCCAT 1074

Qy       1228 TCTTCCTCCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTGTGCTTCA 1287
              |||||||||||||  ||||||||||||||||||||||  ||||||||||  ||||||||||||||
Db       1075 TCTTCCTCCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATTGTGTGTGCTTCA 1134

Qy       1288 TGTCTCACTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGACCCTCTCA 1347
              |||||||||||||||||||  |||||  ||||||||||||||  ||  ||||||||  |||||  |
Db       1135 TGTCTCACTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGATCCTCTGA 1194

Qy       1348 TTTATGCACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATC 1407
              |||||||||||||||||  |||||  ||||||||||||||||||||||||||||||||||||||||
Db       1195 TTTATGCACTCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATC 1254

Qy       1408 CTCTGGGTGGCCTTTGTGACTTGTCTAGCAGATACTAGCTGGGGACAGAGGAAGTACTAA 1467
              | |||||  |||||||||||||||||||||||||||  ||  ||||||||||| | | | ||
Db       1255 CCCTGGGAGGCCTTTGTGACTTGTCTAGCAGATATTAAATGGGGACAGAGCACGCAATAT 1314

Qy       1468 A 1468
              |
Db       1315 A 1315


RESULT 9
US-10-764-420-146
; Sequence 146, Application US/10764420
; Publication No. US20050084872A1
; GENERAL INFORMATION:
;  APPLICANT: Lum, Pek Yee
;  APPLICANT:  Tan, Yejun
;  APPLICANT:  Dai, Hongyue
;  TITLE OF INVENTION: Methods For Determining Whether An Agent
;  TITLE OF INVENTION:  Possesses A Defined Biological Activity
;  FILE REFERENCE: ROSA122057
;  CURRENT APPLICATION NUMBER: US/10/764,420
;  CURRENT FILING DATE:  2004-01-23
;  PRIOR APPLICATION NUMBER: US 60/442,797
;  PRIOR FILING DATE: 2003-01-24
;  PRIOR APPLICATION NUMBER: US 60/474,413
;  PRIOR FILING DATE: 2003-05-30
;  NUMBER OF SEQ ID NOS: 3683
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 146
;   LENGTH: 1640
;   TYPE: DNA
;   ORGANISM: Rattus norvegicus
US-10-764-420-146

  Query Match             42.4%;  Score 840.8;  DB 21;  Length 1640;
  Best Local Similarity   80.1%;  Pred. No. 1.8e-202;
  Matches 1051;  Conservative    0;  Mismatches  252;  Indels    9;  Gaps    5;

Qy        438 TGTTGCAGGATGAACTCCACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAAC 497
              ||  | | |||||||||||||||  || || || ||| | |||||  ||||||  ||||||||
Db        139 TGCAGGAAGATGAACTCCACCCACCACCATGGCATGTATACTTCCCTCCACCTCTGGAAC 198

Qy        498 CGCAGCACCTACGGACAGCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGAC 557
              |||||||  | ||||  | |||||||||  ||||   |||||  ||  ||  ||  ||  || | |||
Db        199 CGCAGCAGCCACGGGCTGCACGGCAATGCCAGCGAGTCTCTGGGGAAGGGGCACTCAGAC 258

Qy        558 GGGGGATGCTACGAGCAACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATA 617
              ||  |||||||| ||||||||  ||  ||||||||  |||||||||||  ||||||
Db        259 GGAGGATGCTATGAGCAACTTTTTGTCTCCCCCGAGGTGTTTGTGACTCTGGGTGTCATA 318

Qy        618 AGCTTGCTGGAGAACATTCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCA 677
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Db        319 AGCCTGTTGGAGAACATTCTAGTGATCGTGGCGATAGCCAAGAACAAGAACCTGCACTCA 378

Qy        678 CCCATGTACTTTTTCATCTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAAC 737

Db        379 CCCATGTACTTTTTCATCTGTAGTCTGGCTGTGGCGGACATGCTGGTGAGCGTTTCGAAC 438

Qy        738 GGGTCAGAGACCATCGTCATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTC 797

Db        439 GGGTCAGAAACCATCGTCATCACCCTGCTAAACAGTACGGACACGGACGCCCAGAGCTTC 498

Qy        798 ACGGTGAATATTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATT 857

Db        499 ACCGTGAATATTGATAATGTCATTGACTCTGTGATCTGTAGCTCCTTGCTCGCATCCATT 558

Qy        858 TGCAGCCTGCTCTCAATTGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTAC 917

Db        559 TGCAGCCTGCTTTCCATTGCAGTGGACAGGTATTTCACTATCTTTTACGCGCTCCAGTAC 618

Qy        918 CATAACATCATGACGGTGAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGC 977

Db        619 CATAACATTATGACGGTTAGGCGGGTCGGGATCATCATCAGTTGTATCTGGGCAGCTTGC 678

Qy        978 ACGGTGTCAGGCATCTTGTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTC 1037

Db        679 ACAGTATCGGGCGTTCTTTTTATCATTTACTCGGACAGCAGCGCTGTCATCATCTGCCTC 738

Qy       1038 ATCACCATGTTCTTCACCATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTC 1097

Db        739 ATTACCATGTTCTTCACCATGCTGGTTCTCATGGCCTCTCTCTATGTCCACATGTTCCTG 798

Qy       1098 ATGGCCAGACTGCACATCAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCCAA 1157

Db        799 ATGGCGAGGCTTCACATTAAGAGGATCGCTGTCCTCCCGGGCACGGGTACCATCCGACAG 858

Qy       1158 GGGGCCAACATGAAGGGTGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGC 1217

Db        859 GGTGCCAACATGAAGGGCGCAATTACCTTGACCATTCTGATTGGAGTGTTTGTTGTCTGC 918

Qy       1218 TGGGCTCCATTCTTCCTCCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGT 1277

Db        919 TGGGCCCCGTTTTTCCTCCATTTACTGTTCTACATCTCTTGTCCTCAGAATCCATACTGC 978

Qy       1278 GTGTGCTTCATGTCTCACTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATC 1337

Db        979 GTGTGCTTCATGTCTCATTTTAACTTGTATCTCATACTGATCATGTGTAACGCTGTCATC 1038

Qy       1338 GACCCTCTCATTTATGCACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATC 1397

Db       1039 GACCCTCTCATTTATGCCCTGCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATC 1098

Qy       1398 TGTTGCTATCCTCTGGGTGGCCTTTGTGACTTGTCTAGCAGATACTAGCTGGGGACAGAG 1457

Db       1099 TGTTTCTACCCCCTGGGAGGCATCTGTGAGTTACCTGGCAGGTATTAAGTGGGGACAGAG 1158

Qy       1458 GAAGTACTAAAAACATGCACCAGAGACTTCTTCATCCTCACACAACATGAACTGTGTGCT 1517

Db       1159 TGCATACTAGGTAGA-GACCTGCAGAATTTGTCACTCAGGCACAACCTGAGCAGTGTACT 1217

Qy       1518 TGGACAACAGCTGCTTCTTCAGTATAAGGCAGGAGTT-GAGAATATCTGTTGCACAAATT 1576

Db       1218 T-CCCAACAGCTGCCTCTACTGTATAGTGCTTTGGTTGGAAAATATCTACTGTATAAAAT 1276

Qy       1577 CAACTTTATGATGTTTTGATGTGAAAAAAAAAATGCCCAGGCTCTGTACATTGCTAATGT 1636

Db       1277 GTAAGTTTATGACTTTTGACGTGGGGAAAAAGTCTCAACG----TGTTATGTTTATTGAC 1332

Qy       1637 CATGCTACTTTTGGGCTGTGCATTGTTAATCCATTTCGACGCTGTAGACACTTTGAATTT 1696

Db       1333 CTTACTTTTTTTGTGTGTAAACTGCTTATTTATGTTCTACAGCGTGGGCGCTATGGAGTT 1392

Qy       1697 CTAGAAAAGAAAAAAGCTTCC--ATTAAAAGCATATCAGTGTTTCTTGTTAT 1746

Db       1393 CCATAAAAGAAAAAGACACCCTTATTAAAACTTTGACAGTGTTTCTTTCCAT 1444
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RESULT 10
US-10-225-567A-157
; Sequence 157, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: LifeSpan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burmer, Glenna C.
; APPLICANT: Roush, Christine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 157
; LENGTH: 999
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-225-567A-157

Query Match 41.2%; Score 818.8; DB 15; Length 999;
Best Local Similarity 89.2%; Pred. No. 5.1e-197;
Matches 883; Conservative 0; Mismatches 107; Indels 0; Gaps 0;

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Qy        455 CACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGCAGCACCTACGGACA 514

Db          9 CTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGCAGCAGTTACAGACT 68

Qy        515 GCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGGGGATGCTACGAGCA 574

Db         69 GCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGAGGGTGCTACGAGCA 128

Qy        575 ACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGCTTGCTGGAGAACAT 634

Db        129 ACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTCATCAGCTTGTTGGAGAATAT 188

Qy        635 TCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCACCCATGTACTTTTTCAT 694

Db        189 CTTAGTGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCCATGTACTTTTTCAT 248

Qy        695 CTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGGTCAGAGACCATCGT 754

Db        249 CTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGATCAGAAACCATTAT 308

Qy        755 CATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTCACGGTGAATATTGATAA 814

Db        309 CATCACCCTATTAAACAGTACAGATACGGATGCACAGAGTTTCACAGTGAATATTGATAA 368

Qy        815 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGCAGCCTGCTCTCAAT 874

Db        369 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGCAGCCTGCTTTCAAT 428

Qy        875 TGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCATAACATCATGACGGT 934

Db        429 TGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCATAACATTATGACAGT 488

Qy        935 GAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGCACGGTGTCAGGCATCTT 994

Db        489 TAAGCGGGTTGGGATCATCATAAGTTGTATCTGGGCAGCTTGCACGGTTTCAGGCATTTT 548

Qy        995 GTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 1054

Db        549 GTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 608

Qy       1055 CATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATGGCCAGACTGCACAT 1114

Db        609 CATGCTGGCTCTCATGGCTTCTCTCTATGTCCACATGTTCCTGATGGCCAGGCTTCACAT 668
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Qy       1115 CAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCCAAGGGGCCAACATGAAGGG 1174
             ||||| || || |||||||| ||||| ||  |||||||||||||| ||||| ||||||||
Db        669 TAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCCAAGGTGCCAATATGAAGGG 728

Qy       1175 TGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGGGCTCCATTCTTCCT 1234
              || |||||||||||||| || ||||| ||||| || |||||||||| ||||||||||
Db        729 AGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTGCTGGGCCCCATTCTTCCT 788

Qy       1235 CCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTGTGCTTCATGTCTCA 1294
              |||||| |||||||||||||||||| |||||||||| ||||||||||||||||||||
Db        789 CCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATTGTGTGTGCTTCATGTCTCA 848

Qy       1295 CTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGACCCTCTCATTTATGC 1354
             |||||||||||| ||||| |||||||||||||| || |||||||| ||||| ||||||||
Db        849 CTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGATCCTCTGATTTATGC 908

Qy       1355 ACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCTCTGGG 1414
             |||||||| ||||| ||||||||||||||||||||||||||||||||||||||||||||
Db        909 ACTCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCCCTGGG 968

Qy       1415 TGGCCTTTGTGACTTGTCTAGCAGATACTA 1444
              |||||||||||||||||||||||||||| ||
Db        969 AGGCCTTTGTGACTTGTCTAGCAGATATTA 998
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RESULT 11
US-10-305-720-1277
; Sequence 1277, Application US/10305720
; Publication No. US20040010136A1
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expressio
; FILE REFERENCE: PA-0002-1 CON
; CURRENT APPLICATION NUMBER: US/10/305,720
; CURRENT FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: 09/016,434
; PRIOR FILING DATE: 1998-01-30
; NUMBER OF SEQ ID NOS: 1490
; SOFTWARE: PERL Program
; SEQ ID NO 1277
; LENGTH: 999
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: GenBank ID No. US20040010136A1 g291977
US-10-305-720-1277

Query Match 41.2%; Score 818.8; DB 17; Length 999;
Best Local Similarity 89.2%; Pred. No. 5.1e-197;
Matches 883; Conservative 0; Mismatches 107; Indels 0; Gaps 0;

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Qy        455 CACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGCAGCACCTACGGACA 514
              | ||   || |  || ||||||||||||||| ||| ||||||||||||||  ||| |||
Db          9 CTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGCAGCAGTTACAGACT 68

Qy        515 GCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGGGGATGCTACGAGCA 574
              |||| |||| |||| |||||||||||| |||||||| | || || || ||||||||||
Db         69 GCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGAGGGTGCTACGAGCA 128

Qy        575 ACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGCTTGCTGGAGAACAT 634
              ||| || ||||| || |||||||| |||||||||| ||||| |||||| ||||||| ||
Db        129 ACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTCATCAGCTTGTTGGAGAATAT 188

Qy        635 TCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCACCCATGTACTTTTTCAT 694
                | ||||| |||||||||||||||||||||||||||||| ||||||||||||||||||
Db        189 CTTAGTGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCCATGTACTTTTTCAT 248

Qy        695 CTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGGTCAGAGACCATCGT 754
              ||| ||| |||||||||| |||||||||||||||||||| || || ||||| |||||  |
Db        249 CTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGATCAGAAACCATTAT 308
```

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Qy        755 CATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTCACGGTGAATATTGATAA 814
              ||||||||| || |||||||| |||||||| || |||||||||||| ||||||||||||||
Db        309 CATCACCCTATTAAACAGTACAGATACGGATGCACAGAGTTTCACAGTGAATATTGATAA 368

Qy        815 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGCAGCCTGCTCTCAAT 874
              |||||||||||||||||||||||||||||||||||| || || ||||||||||||| |||||
Db        369 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGCAGCCTGCTTTCAAT 428

Qy        875 TGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCATAACATCATGACGGT 934
              |||||||||||||||||||||||||||||| ||||| |||||||||||||||| ||||| ||
Db        429 TGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCATAACATTATGACAGT 488

Qy        935 GAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGCACGGTGTCAGGCATCTT 994
              | |||||||||||||||||| ||||| |||||||| |||||||||| |||||||| ||
Db        489 TAAGCGGGTTGGGATCATCATAAGTTGTATCTGGGCAGCTTGCACGGTTTCAGGCATTTT 548

Qy        995 GTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 1054
              |||||||||||||| || |||| ||||||||||||||||||||||||||||||||||||
Db        549 GTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 608

Qy       1055 CATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATGGCCAGACTGCACAT 1114
              ||||||||| |||||||||||||||| |||||||||||||| |||||||| || |||||
Db        609 CATGCTGGCTCTCATGGCTTCTCTCTATGTCCACATGTTCCTGATGGCCAGGCTTCACAT 668

Qy       1115 CAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCCAAGGGGCCAACATGAAGGG 1174
              ||||| || || |||||||| ||||| ||  |||||||||||||| ||||| ||||||||
Db        669 TAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCCAAGGTGCCAATATGAAGGG 728

Qy       1175 TGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGGGCTCCATTCTTCCT 1234
              || |||||||||||||| || ||||| ||||| || |||||||||| ||||||||||
Db        729 AGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTGCTGGGCCCCATTCTTCCT 788

Qy       1235 CCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTGTGCTTCATGTCTCA 1294
              |||||| |||||||||||||||||| |||||||||| |||||||||||||||||||||
Db        789 CCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATTGTGTGTGCTTCATGTCTCA 848

Qy       1295 CTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGACCCTCTCATTTATGC 1354
              |||||||||||| ||||| |||||||||||||| || |||||||| ||||| ||||||||
Db        849 CTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGATCCTCTGATTTATGC 908

Qy       1355 ACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCCCTGGG 1414
              |||||||| ||||| ||||||||||||||||||||||||||||||||||||||||||||
Db        909 ACTCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCCCTGGG 968

Qy       1415 TGGCCTTTGTGACTTGTCTAGCAGATACTA 1444
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Db        969 AGGCCTTTGTGACTTGTCTAGCAGATATTA 998
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RESULT 12
US-10-373-355-1
; Sequence 1, Application US/10373355
; Publication No. US20030166009A1
; GENERAL INFORMATION:
; APPLICANT: MacNeil, Douglas J.
; APPLICANT: Weinberg, David H.
; APPLICANT: Van der Ploeg, Leonardus H. T.
; TITLE OF INVENTION: DNA MOLECULES ENCODING THE MELANOCORTIN
; TITLE OF INVENTION: 4 RECEPTOR PROTEIN FROM RHESUS MONKEY
; FILE REFERENCE: 20190P
; CURRENT APPLICATION NUMBER: US/10/373,355
; CURRENT FILING DATE: 2003-02-25
; PRIOR APPLICATION NUMBER: US/09/831,206
; PRIOR FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: PCT/US99/25767
; PRIOR FILING DATE: 1999-11-05
; PRIOR APPLICATION NUMBER: 60/107,721
; PRIOR FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1030
; TYPE: DNA

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;   ORGANISM: rhesus monkey (Macaca mulatta)
US-10-373-355-1

  Query Match             41.2%;  Score 817.6;  DB 16;  Length 1030;
  Best Local Similarity   87.4%;  Pred. No. 1.1e-196;
  Matches  895;  Conservative    0;  Mismatches  129;  Indels    0;  Gaps    0;

Qy        436 CTTGTTGCAGGATGAACTCCACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGA 495
              ||  |  ||| |||     | ||   || |  || |||||| ||||||| ||| ||||||
Db          6 CTCCTGCCAGCATGGTGAACTCCACCCACCGTGGGATGCACGCTTCTCTGCACCTCTGGA 65

Qy        496 ACCGCAGCACCTACGGACAGCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCG 555
              ||||||||| | || ||| |||| |||| |||| |||||||||||| ||||||||| | |
Db         66 ACCGCAGCAGCCACAGACTGCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTG 125

Qy        556 ACGGGGGATGCTACGAGCAACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCA 615
              | || || |||||||||||||| || ||||| || |||||||| ||||| ||||| ||||
Db        126 ATGGAGGGTGCTACGAGCAACTTTTTGTCTCTCCTGAGGTGTTTGTGACACTGGGTGTCA 185

Qy        616 TAAGCTTGCTGGAGAACATTCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACT 675
              | |||||| ||||||| ||  | ||||| |||||||||||||||||||||||||||| |
Db        186 TCAGCTTGTTGGAGAATATCTTAGTGATTGTGGCAATAGCCAAGAACAAGAATCTGCATT 245

Qy        676 CACCCATGTACTTTTTCATCTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCA 735
              |||||||||||||||||||||| |||||||||||||| |||||||||||||||||||| |
Db        246 CACCCATGTACTTTTTCATCTGCAGCCTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAA 305

Qy        736 ACGGGTCAGAGACCATCGTCATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTT 795
              | || ||||| ||||| |||||||||||| || |||||||| ||||||||| | |||||||
Db        306 ATGGATCAGAAACCATTGTCATCACCCTATTAAACAGTACAGATACGGACACACAGAGTT 365

Qy        796 TCACGGTGAATATTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGA 855
              |||| ||||| |||||||||| |||||||| |||||||||||||||||| || || |
Db        366 TCACAGTGAACATTGATAATGTTATTGACTCAGTGATCTGTAGCTCCTTGCTTGCATCCA 425

Qy        856 TTTGCAGCCTGCTCTCAATTGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGT 915
              |||||||||||| |||||||||||||||||||||||||||||||| ||||| || ||||
Db        426 TTTGCAGCCTGCTTTCAATTGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTTCAGT 485

Qy        916 ACCATAACATCATGACGGTGAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTT 975
              ||||||||| ||||| || | |||||||||||||||| ||||| ||||||| ||||
Db        486 ACCATAACATTATGACAGTTAAGCGGGTTGGGATCATCATAAGTTGTATCTGGGCAGCTT 545

Qy        976 GCACGGTGTCAGGCATCTTGTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCC 1035
              ||||||| |||||||| |||||||||||||||| || |||| ||||||||||||||||
Db        546 GCACGGTTTCAGGCATTTTGTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCC 605

Qy       1036 TCATCACCATGTTCTTCACCATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCC 1095
              |||||||||||||||||||||| |||| |||||||||||||||| ||||||||||||
Db        606 TCATCACCATGTTCTTCACCATGTTGGCTCTCATGGCTTCTCTCTATGTCCACATGTTCC 665

Qy       1096 TCATGGCCAGACTGCACATCAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCC 1155
              | ||||||| || ||||| |||| || || |||||||| |||| ||  |||||||||
Db        666 TGATGGCCAGGCTTCACATTAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCC 725

Qy       1156 AAGGGGCCAACATGAAGGGTGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCT 1215
              |||| ||||| |||||||| || ||||| |||||||| || ||||| ||||| || ||||
Db        726 AAGGCGCCAATATGAAGGGAGCGATTACTTTGACCATCCTGATTGGCGTCTTTGTTGTCT 785

Qy       1216 GCTGGGCTCCATTCTTCCTCCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACT 1275
              ||||||| |||||||||||||||| |||||||||||||||||| |||||||||| |
Db        786 GCTGGGCCCCATTCTTCCTCCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATT 845

Qy       1276 GTGTGTGCTTCATGTCTCACTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCA 1335
              |||||||||||||||||||||||||||||| ||||| |||||||||||||| ||  |||
Db        846 GTGTGTGCTTCATGTCTCACTTTAACTTGTATCTCATACTGATCATGTGTAATTCAGTCA 905

Qy       1336 TCGACCCTCTCATTTATGCACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCA 1395
              |||| ||||| |||||||||||||||| ||||| || ||||||||||||||||||||
Db        906 TCGATCCTCTGATTTATGCACTCCGGAGTCAAGAACTAAGGAAAACCTTCAAAGAGATCA 965

Qy       1396 TCTGTTGCTATCCTCTGGGTGGCCTTTGTGACTTGTCTAGCAGATACTAGCTGGGGACAG 1455
              |||||||||||| ||||| ||||| |||||||||||||||||| ||  |||||||||

Db        966 TCTGTTGCTATCCCCTGGGAGGCCTATGTGACTTGTCTAGCAGATATTAAATGGGGACAG 1025

Qy       1456 AGGA 1459
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Db       1026 AGCA 1029


RESULT 13
US-09-876-252-73
; Sequence 73, Application US/09876252
; Publication No. US20030018182A1
; GENERAL INFORMATION:
;  APPLICANT: Behan, Dominic P.
;  APPLICANT:  Lehmann-Bruinsma, Karin
;  APPLICANT:  Chalmers, Derek T.
;  APPLICANT:  Lowitz, Kevin P.
;  APPLICANT:  Lin, I-Lin
;  APPLICANT:  Dang, Huong T.
;  APPLICANT:  Chen, Ruoping
;  APPLICANT:  Liaw, Chen W.
;  TITLE OF INVENTION: Non-Endogenous Constitively Activated Human G Protein Coupled Rec
;  FILE REFERENCE: AREN-0054
;  CURRENT APPLICATION NUMBER: US/09/876,252
;  CURRENT FILING DATE:  2001-06-07
;  PRIOR APPLICATION NUMBER: 09/416,760
;  PRIOR FILING DATE: 1999-10-12
;  PRIOR APPLICATION NUMBER: 09/170,496
;  PRIOR FILING DATE: 1998-10-13
;  PRIOR APPLICATION NUMBER: 60/110,060
;  PRIOR FILING DATE: 1998-11-27
;  PRIOR APPLICATION NUMBER: 60/120,416
;  PRIOR FILING DATE: 1999-02-16
;  PRIOR APPLICATION NUMBER: 60/121,852
;  PRIOR FILING DATE: 1999-02-26
;  PRIOR APPLICATION NUMBER: 60/109,213
;  PRIOR FILING DATE: 1998-11-20
;  PRIOR APPLICATION NUMBER: 60/123,944
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,945
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,948
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,951
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,946
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,949
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/152,524
;  PRIOR FILING DATE: 1999-09-03
;  PRIOR APPLICATION NUMBER: 60/151,114
;  PRIOR FILING DATE: 1999-08-27
;  PRIOR APPLICATION NUMBER: 60/108,029
;  PRIOR FILING DATE: 1998-11-12
;  PRIOR APPLICATION NUMBER: 60/136,436
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 60/136,439
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 60/136,567
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 60/137,127
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 60/137,131
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 60/141,448
;  PRIOR FILING DATE: 1999-06-29
;  PRIOR APPLICATION NUMBER: 60/136,437
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 60/156,555
;  PRIOR FILING DATE: 1999-09-29
;  PRIOR APPLICATION NUMBER: 60/156,634
;  PRIOR FILING DATE: 1999-09-29
;  PRIOR APPLICATION NUMBER: 60/156,653
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;  PRIOR FILING DATE: 1999-09-29
;  PRIOR APPLICATION NUMBER: 60/157,280
;  PRIOR FILING DATE: 1999-10-01
;  PRIOR APPLICATION NUMBER: 60/157,294
;  PRIOR FILING DATE: 1999-10-01
;  PRIOR APPLICATION NUMBER: 60/157,281
;  PRIOR FILING DATE: 1999-10-01
;  PRIOR APPLICATION NUMBER: 60/157,282
;  PRIOR FILING DATE: 1999-10-01
;  PRIOR APPLICATION NUMBER: 60/156,633
;  PRIOR FILING DATE: 1999-09-29
;  NUMBER OF SEQ ID NOS: 146
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 73
;   LENGTH: 999
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-876-252-73

  Query Match             41.2%;  Score 817.2;  DB 10;  Length 999;
  Best Local Similarity   89.1%;  Pred. No. 1.3e-196;
  Matches  882;  Conservative    0;  Mismatches  108;  Indels    0;  Gaps    0;

Qy        455 CACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGCAGCACCTACGGACA 514
              | ||   || |  || ||||||||||||||| ||| ||||||||||||||  ||| |||
Db          9 CTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGCAGCAGTTACAGACT 68

Qy        515 GCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGGGGATGCTACGAGCA 574
              |||| |||| |||| |||||||||||| ||||||||| | || || || ||||||||||
Db         69 GCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGAGGGTGCTACGAGCA 128

Qy        575 ACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGCTTGCTGGAGAACAT 634
              ||| || ||||| || |||||||| |||||||||| ||||| |||||| ||||||| ||
Db        129 ACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTCATCAGCTTGTTGGAGAATAT 188

Qy        635 TCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCACCCATGTACTTTTTCAT 694
                | ||||| |||||||||||||||||||||||||||| ||||||||||||||||||||
Db        189 CTTAGTGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCCATGTACTTTTTCAT 248

Qy        695 CTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGGTCAGAGACCATCGT 754
              ||| ||| |||||||||| |||||||||||||||||||| || || ||||| |||||  |
Db        249 CTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGATCAGAAACCATTAT 308

Qy        755 CATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTCACGGTGAATATTGATAA 814
              ||||||||| || |||||||| |||||||| || |||||||||| ||||||||||||||
Db        309 CATCACCCTATTAAACAGTACAGATACGGATGCACAGAGTTTCACAGTGAATATTGATAA 368

Qy        815 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGCAGCCTGCTCTCAAT 874
              |||||||||||||||||||||||||||||||| || || |||||||||||||| |||||
Db        369 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGCAGCCTGCTTTCAAT 428

Qy        875 TGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCATAACATCATGACGGT 934
              |||||||||||||||||||||||||||||| ||||| ||||||||||||||||| |||||
Db        429 TGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCATAACATTATGACAGT 488

Qy        935 GAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGCACGGTGTCAGGCATCTT 994
              | |||||||||||||| ||| ||||| |||||||| |||||||||| |||||||| ||
Db        489 TAAGCGGGTTGGGATCAGCATAAGTTGTATCTGGGCAGCTTGCACGGTTTCAGGCATTTT 548

Qy        995 GTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 1054
              |||||||||||||| || |||| ||||||||||||||||||||||||||||||||||||
Db        549 GTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 608

Qy       1055 CATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATGGCCAGACTGCACAT 1114
              ||||||||| |||||||||||||||||| |||||||||||| |||||||| || |||||
Db        609 CATGCTGGCTCTCATGGCTTCTCTCTATGTCCACATGTTCCTGATGGCCAGGCTTCACAT 668

Qy       1115 CAAGAGAATCGCCGTCCTCCCGGGCACCGGCACCATCCGCCAAGGGGCCAACATGAAGGG 1174
              ||||| || || |||||||| ||||| ||  |||||||||||||| ||||| ||||||||
Db        669 TAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCCAAGGTGCCAATATGAAGGG 728

Qy       1175 TGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGGGCTCCATTCTTCCT 1234
                || |||||||||||||| || ||||| ||||| || |||||||||| ||||||||||

Db        729 AGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTGCTGGGCCCCATTCTTCCT 788

Qy       1235 CCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTGTGCTTCATGTCTCA 1294
              |||||| |||||||||||||||||||| |||||||||| ||||||||||||||||||||
Db        789 CCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATTGTGTGTGCTTCATGTCTCA 848

Qy       1295 CTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGACCCTCTCATTTATGC 1354
              |||||||||||| ||||| |||||||||||||| || |||||||| ||||| ||||||||
Db        849 CTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGATCCTCTGATTTATGC 908

Qy       1355 ACTCCGGAGCCAAGAGCTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCTCTGGG 1414
              ||||||||| ||||| |||||||||||||||||||||||||||||||||||||| |||||
Db        909 ACTCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCCCTGGG 968

Qy       1415 TGGCCTTTGTGACTTGTCTAGCAGATACTA 1444
              |||||||||||||||||||||||||||| ||
Db        969 AGGCCTTTGTGACTTGTCTAGCAGATATTA 998


RESULT 14
US-10-417-820A-73
; Sequence 73, Application US/10417820A
; Publication No. US20030229216A1
; GENERAL INFORMATION:
;  APPLICANT: Chen, Ruoping
;  APPLICANT:  Liaw, Chen W.
;  APPLICANT:  Lowitz, Kevin
;  APPLICANT:  Chalmers, Derek T.
;  APPLICANT:  Behan, Dominic P.
;  TITLE OF INVENTION: Constitutively Activated Human G Protein Coupled
;  TITLE OF INVENTION:  Receptors
;  FILE REFERENCE: 7.US28.CON
;  CURRENT APPLICATION NUMBER: US/10/417,820A
;  CURRENT FILING DATE:  2003-04-16
;  PRIOR APPLICATION NUMBER: 09/416,760
;  PRIOR FILING DATE: 1999-10-12
;  PRIOR APPLICATION NUMBER: 09/170,496
;  PRIOR FILING DATE: 1998-10-13
;  PRIOR APPLICATION NUMBER: 60/110,060
;  PRIOR FILING DATE: 1998-11-27
;  PRIOR APPLICATION NUMBER: 60/120,416
;  PRIOR FILING DATE: 1999-02-16
;  PRIOR APPLICATION NUMBER: 60/121,852
;  PRIOR FILING DATE: 1999-02-26
;  PRIOR APPLICATION NUMBER: 60/109,213
;  PRIOR FILING DATE: 1998-11-20
;  PRIOR APPLICATION NUMBER: 60/123,944
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,945
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,948
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,951
;  PRIOR FILING DATE: 1999-03-12
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 155
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 73
;   LENGTH: 999
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-417-820A-73

  Query Match             41.2%;  Score 817.2;  DB 17;  Length 999;
  Best Local Similarity   89.1%;  Pred. No. 1.3e-196;
  Matches  882;  Conservative    0;  Mismatches  108;  Indels    0;  Gaps    0;

Qy        455 CACCCTTCAGCACGGAATGCACACTTCTCTCCACTTCTGGAACCGCAGCACCTACGGACA 514
              | ||   || |  || ||||||||||||||| ||| ||||||||||||||  ||| |||
Db          9 CTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGCAGCAGTTACAGACT 68

Qy        515 GCACGGCAACGCCACTGAGTCCCTTGGCAAAGGCTACCCCGACGGGGGATGCTACGAGCA 574
              |||| |||| |||| |||||||||||| ||||||||| | || || || ||||||||||
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Db         69 GCACAGCAATGCCAGTGAGTCCCTTGGAAAAGGCTACTCTGATGGAGGGTGCTACGAGCA 128

Qy        575 ACTCTTCGTCTCCCCGGAGGTGTTCGTGACTCTGGGGGTCATAAGCTTGCTGGAGAACAT 634
              ||| || ||||| || |||||||| |||||||||| ||||| |||||| ||||||| ||
Db        129 ACTTTTTGTCTCTCCTGAGGTGTTTGTGACTCTGGGTGTCATCAGCTTGTTGGAGAATAT 188

Qy        635 TCTGGTGATCGTGGCAATAGCCAAGAACAAGAATCTGCACTCACCCATGTACTTTTTCAT 694
                | ||||| |||||||||||||||||||||||||||||| ||||||||||||||||||
Db        189 CTTAGTGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCCATGTACTTTTTCAT 248

Qy        695 CTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGGTCAGAGACCATCGT 754
              ||| ||| |||||||||| |||||||||||||||||||| || || ||||| |||||  |
Db        249 CTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGATCAGAAACCATTAT 308

Qy        755 CATCACCCTGTTGAACAGTACGGATACGGACGCGCAGAGTTTCACGGTGAATATTGATAA 814
              ||||||||| || |||||||| |||||||| || |||||||||| ||||||||||||||
Db        309 CATCACCCTATTAAACAGTACAGATACGGATGCACAGAGTTTCACAGTGAATATTGATAA 368

Qy        815 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGCAGCCTGCTCTCAAT 874
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Db        429 TGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCATAACATTATGACAGT 488

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Db        549 GTTCATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 608

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Db        609 CATGCTGGCTCTCATGGCTTCTCTCTATGTCCACATGTTCCTGATGGCCAGGCTTCACAT 668

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Db        669 TAAGAGGATTGCTGTCCTCCCCGGCACTGGTGCCATCCGCCAAGGTGCCAATATGAAGGG 728

Qy       1175 TGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGGGCTCCATTCTTCCT 1234
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Db        729 AGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTGCTGGGCCCCATTCTTCCT 788

Qy       1235 CCACTTGATATTCTACATCTCTTGTCCCCAGAATCCATACTGTGTGTGCTTCATGTCTCA 1294
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Db        789 CCACTTAATATTCTACATCTCTTGTCCTCAGAATCCATATTGTGTGTGCTTCATGTCTCA 848

Qy       1295 CTTTAACTTGTACCTCATTCTGATCATGTGTAACTCCATCATCGACCCTCTCATTTATGC 1354
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RESULT 15
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; Sequence 73, Application US/10723955
; Publication No. US20040110238A1
; GENERAL INFORMATION:
;  APPLICANT: Behan, Dominic P.
;  APPLICANT:  Chalmers, Derek T.
;  APPLICANT:  Lin, I-Lin
;  APPLICANT:  Liaw, Chen W.
;  APPLICANT:  Lehman-Bruinsma, Karin
;  APPLICANT:  Lowitz, Kevin P.
;  APPLICANT:  Dang, Huong T.
;  APPLICANT:  Chen, Ruoping
;  APPLICANT:  Gore, Martin
;  APPLICANT:  White, Carol
;  TITLE OF INVENTION: Constitutively Activated Human G Protein Coupled
;  TITLE OF INVENTION:  Receptors
;  FILE REFERENCE: 7.US29.CON
;  CURRENT APPLICATION NUMBER: US/10/723,955
;  CURRENT FILING DATE:  2003-11-26
;  PRIOR APPLICATION NUMBER: 10/417,820
;  PRIOR FILING DATE: 2003-4-16
;  PRIOR APPLICATION NUMBER: 09/416,760
;  PRIOR FILING DATE: 1999-10-12
;  PRIOR APPLICATION NUMBER: 09/170,496
;  PRIOR FILING DATE: 1998-10-13
;  PRIOR APPLICATION NUMBER: 60/110,060
;  PRIOR FILING DATE: 1998-11-27
;  PRIOR APPLICATION NUMBER: 60/120,416
;  PRIOR FILING DATE: 1999-02-16
;  PRIOR APPLICATION NUMBER: 60/121,852
;  PRIOR FILING DATE: 1999-02-26
;  PRIOR APPLICATION NUMBER: 60/109,213
;  PRIOR FILING DATE: 1998-11-20
;  PRIOR APPLICATION NUMBER: 60/123,944
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,945
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,948
;  PRIOR FILING DATE: 1999-03-12
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 148
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 73
;   LENGTH: 999
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-723-955-73

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Db        189 CTTAGTGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTCACCCATGTACTTTTTCAT 248

Qy        695 CTGTAGCCTGGCTGTGGCCGATATGCTGGTGAGCGTTTCCAACGGGTCAGAGACCATCGT 754
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Db        249 CTGCAGCTTGGCTGTGGCTGATATGCTGGTGAGCGTTTCAAATGGATCAGAAACCATTAT 308

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Db        309 CATCACCCTATTAAACAGTACAGATACGGATGCACAGAGTTTCACAGTGAATATTGATAA 368

Qy        815 TGTCATTGACTCGGTGATCTGTAGCTCCTTGCTCGCCTCGATTTGCAGCCTGCTCTCAAT 874
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Qy        875 TGCAGTGGACAGGTACTTTACTATCTTTTATGCCCTCCAGTACCATAACATCATGACGGT 934
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Db        429 TGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCATAACATTATGACAGT 488

Qy        935 GAGGCGGGTTGGGATCATCATCAGTTGCATCTGGGCGGCTTGCACGGTGTCAGGCATCTT 994
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Db        489 TAAGCGGGTTGGGATCAGCATAAGTTGTATCTGGGCAGCTTGCACGGTTTCAGGCATTTT 548

Qy        995 GTTCATCATTTACTCGGACAGTACTGCTGTCATCATCTGCCTCATCACCATGTTCTTCAC 1054
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Qy       1055 CATGCTGGCCCTCATGGCTTCTCTCTACGTCCACATGTTCCTCATGGCCAGACTGCACAT 1114
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Qy       1175 TGCCATTACCTTGACCATACTCATTGGGGTCTTCGTCGTCTGCTGGGCTCCATTCTTCCT 1234
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Db        849 CTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGATCCTCTGATTTATGC 908

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Job time : 1308 secs

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: August 3, 2005, 14:23:50 ; Search time 29 Seconds
(without alignments)
854.603 Million cell updates/sec

Title: US-09-884-211B-4
Perfect score: 1726
Sequence: 1 MNSTLQHGMHTSLHFWNRST.....FKEIICCYPLGGLCDLSSRY 332

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
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6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	1638.5	94.9	332	1	US-08-671-525B-8	Sequence 8, Appli
2	1638.5	94.9	332	1	US-08-672-109B-8	Sequence 8, Appli
3	1638.5	94.9	332	2	US-08-842-045-8	Sequence 8, Appli
4	1638.5	94.9	332	2	US-08-842-238-8	Sequence 8, Appli
5	1638.5	94.9	332	2	US-08-780-749A-2	Sequence 2, Appli
6	1638.5	94.9	332	3	US-08-629-335B-8	Sequence 8, Appli
7	1638.5	94.9	332	3	US-08-870-511-2	Sequence 2, Appli
8	1638.5	94.9	332	4	US-09-384-302A-9	Sequence 9, Appli
9	1632.5	94.6	332	2	US-08-662-560-2	Sequence 2, Appli
10	1632.5	94.6	332	2	US-08-780-749A-6	Sequence 6, Appli
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12	1627.5	94.3	332	3	US-08-870-511-8	Sequence 8, Appli
13	1626.5	94.2	332	3	US-08-870-511-10	Sequence 10, Appl
14	1626.5	94.2	332	3	US-08-870-511-12	Sequence 12, Appl
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17	1592.5	92.3	332	3	US-08-706-281A-16	Sequence 16, Appl
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22	1257	72.8	248	4	US-09-380-419C-4	Sequence 4, Appli
23	1026.5	59.5	325	3	US-08-706-281A-18	Sequence 18, Appl
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39	981.5	56.9	360	3	US-08-629-335B-6	Sequence 6, Appli
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41	981.5	56.9	360	4	US-09-709-066-4	Sequence 4, Appli
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43	965	55.9	323	2	US-08-044-812A-4	Sequence 4, Appli
44	965	55.9	323	2	US-08-475-637-4	Sequence 4, Appli
45	965	55.9	323	3	US-09-191-359-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1
US-08-671-525B-8
; Sequence 8, Application US/08671525B
; Patent No. 5703220
; GENERAL INFORMATION:
; APPLICANT: Yamada, Tadataka
; APPLICANT: Gantz, Ira
; TITLE OF INVENTION: Genes Encoding Melanocortin Receptors
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Harness, Dickey & Pierce, P.L.C.
; STREET: P.O. Box 828
; CITY: Bloomfield Hills
; STATE: MI
; COUNTRY: US
; ZIP: 48303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/671,525B
; FILING DATE: June 27, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, DeAnn F.
; REGISTRATION NUMBER: 36683
; REFERENCE/DOCKET NUMBER: 2115-000853DVB
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (810)641-1600
; TELEFAX: (810)641-0270
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 332 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-671-525B-8

Query Match 94.9%; Score 1638.5; DB 1; Length 332;
Best Local Similarity 95.5%; Pred. No. 1.6e-125;
Matches 317; Conservative 6; Mismatches 8; Indels 1; Gaps 1;

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RESULT 2
US-08-672-109B-8
; Sequence 8, Application US/08672109B
; Patent No. 5710265
;  GENERAL INFORMATION:
;    APPLICANT:  Yamada, Tadataka
;    APPLICANT:  Gantz, Ira
;    TITLE OF INVENTION:  Genes Encoding Melanocortin Receptors
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Harness, Dickey & Pierce, P.L.C.
;      STREET:  P.O. Box 828
;      CITY:  Bloomfield Hills
;      STATE:  MI
;      COUNTRY:  US
;      ZIP:  48303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/672,109B
;      FILING DATE:  June 27, 1996
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Smith, DeAnn F.
;      REGISTRATION NUMBER:  36683
;      REFERENCE/DOCKET NUMBER:  2115-000853DVC
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (810)641-1600
;      TELEFAX:  (810)641-0270
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  332 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-672-109B-8

  Query Match           94.9%;  Score 1638.5;  DB 1;  Length 332;
  Best Local Similarity  95.5%;  Pred. No. 1.6e-125;
  Matches  317;  Conservative    6;  Mismatches    8;  Indels    1;  Gaps    1;

Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
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Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
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Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIIITLLNSTDTDAQSFTVN 120

Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
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RESULT 3
US-08-842-045-8
; Sequence 8, Application US/08842045
; Patent No. 5817787
;  GENERAL INFORMATION:
;    APPLICANT:  Yamada, Tadataka
;    APPLICANT:  Gantz, Ira
;    TITLE OF INVENTION:  Genes Encoding Melanocortin Receptors
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Harness, Dickey & Pierce, P.L.C.
;      STREET:  P.O. Box 828
;      CITY:  Bloomfield Hills
;      STATE:  MI
;      COUNTRY:  US
;      ZIP:  48303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/842,045
;      FILING DATE:
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Smith, DeAnn F.
;      REGISTRATION NUMBER:  36683
;      REFERENCE/DOCKET NUMBER:  2115-000853DVE
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (810)641-1600
;      TELEFAX:  (810)641-0270
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  332 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-842-045-8

  Query Match           94.9%;  Score 1638.5;  DB 2;  Length 332;
  Best Local Similarity  95.5%;  Pred. No. 1.6e-125;
  Matches  317;  Conservative    6;  Mismatches    8;  Indels    1;  Gaps    1;

Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
              :|||   ||||||| ||||:|  | ||:||||||| ||||||||||||||||||||||
Db          2 VNST-HRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
              ||||||||||||||||||||||||||||||||||||||||||:||||||||||||||||
Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIIITLLNSTDTDAQSFTVN 120

Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
              ||||||||||||||||||||||||||||||||||||||||||||:||||||||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGIIISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              ||||||||||:|||||||||||||||||||||||||||||||||||||||||| ||||||
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Db        181 GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN 240

Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
              ||||||||||||||||||||||||||||||||
Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


RESULT 4
US-08-842-238-8
; Sequence 8, Application US/08842238
; Patent No. 5869257
;  GENERAL INFORMATION:
;    APPLICANT:  Yamada, Tadataka
;    APPLICANT:  Gantz, Ira
;    TITLE OF INVENTION:  Genes Encoding Melanocortin Receptors
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Harness, Dickey & Pierce, P.L.C.
;      STREET:  P.O. Box 828
;      CITY:  Bloomfield Hills
;      STATE:  MI
;      COUNTRY:  US
;      ZIP:  48303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/842,238
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Smith, DeAnn F.
;      REGISTRATION NUMBER:  36683
;      REFERENCE/DOCKET NUMBER:  2115-000853DVD
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (810)641-1600
;      TELEFAX:  (810)641-0270
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  332 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-842-238-8

  Query Match           94.9%;  Score 1638.5;  DB 2;  Length 332;
  Best Local Similarity  95.5%;  Pred. No. 1.6e-125;
  Matches  317;  Conservative    6;  Mismatches    8;  Indels    1;  Gaps    1;

Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
              :|||   |||||| ||||:|  | ||:|||||| ||||||||||||||||||||||||
Db          2 VNST-HRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
              ||||||||||||||||||||||||||||||||||||||||:||||||||||||||||||
Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIIITLLNSTDTDAQSFTVN 120

Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
              |||||||||||||||||||||||||||||||||||||:|||||||||||||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGIIISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              ||||||||||:|||||||||||||||||||||||||||||||||||||||| ||||||
Db        181 GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN 240

Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Db        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
              ||||||||||||||||||||||||||||||||
Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


RESULT 5
US-08-780-749A-2
; Sequence 2, Application US/08780749A
; Patent No. 5932779
;  GENERAL INFORMATION:
;    APPLICANT:  Lee, Frank
;    APPLICANT:  Huszar, Dennis
;    APPLICANT:  Gu, Wei
;    TITLE OF INVENTION:  SCREENING METHODS FOR COMPOUNDS
;    TITLE OF INVENTION:  USEFUL IN THE REGULATION OF BODY WEIGHT
;    NUMBER OF SEQUENCES:  10
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds LLP
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036/2711
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/780,749A
;      FILING DATE:  08-JAN-1997
;      CLASSIFICATION:  800
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Laura A. Coruzzi
;      REGISTRATION NUMBER:  30,742
;      REFERENCE/DOCKET NUMBER:  7853-064
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 790-9090
;      TELEFAX:  (212) 869-8864/9741
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  332 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  peptide
US-08-780-749A-2

  Query Match           94.9%;  Score 1638.5;  DB 2;  Length 332;
  Best Local Similarity  95.5%;  Pred. No. 1.6e-125;
  Matches  317;  Conservative    6;  Mismatches    8;  Indels    1;  Gaps    1;

Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
              :|||   |||||| ||||:|  | ||:|||||| ||||||||||||||||||||||||
Db          2 VNST-HRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
              ||||||||||||||||||||||||||||||||||||||||:||||||||||||||||||
Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIIITLLNSTDTDAQSFTVN 120

Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
              |||||||||||||||||||||||||||||||||||||:|||||||||||||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGIIISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              ||||||||||:|||||||||||||||||||||||||||||||||||||||| ||||||
Db        181 GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN 240

Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Db        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
              ||||||||||||||||||||||||||||||||
Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


RESULT 6
US-08-629-335B-8
; Sequence 8, Application US/08629335B
; Patent No. 6117975
;  GENERAL INFORMATION:
;    APPLICANT:  Yamada, Tadataka
;    APPLICANT:  Gantz, Ira
;    TITLE OF INVENTION:  Genes Encoding Melanocortin Receptors
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Harness, Dickey & Pierce, P.L.C.
;      STREET:  P.O. Box 828
;      CITY:  Bloomfield Hills
;      STATE:  MI
;      COUNTRY:  US
;      ZIP:  48303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/629,335B
;      FILING DATE:  July 23, 1996
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Smith, DeAnn F.
;      REGISTRATION NUMBER:  36683
;      REFERENCE/DOCKET NUMBER:  2115-000853DVA
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (810)641-1600
;      TELEFAX:  (810)641-0270
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  332 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-629-335B-8

  Query Match             94.9%;  Score 1638.5;  DB 3;  Length 332;
  Best Local Similarity   95.5%;  Pred. No. 1.6e-125;
  Matches  317;  Conservative    6;  Mismatches    8;  Indels    1;  Gaps    1;

Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
              :|||   ||||||| |||:|  | ||:||||||| |||||||||||||||||||||||
Db          2 VNST-HRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
              ||||||||||||||||||||||||||||||||||||||||||:|||||||||||||||||
Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIIITLLNSTDTDAQSFTVN 120

Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
              ||||||||||||||||||||||||||||||||||||||||||:|||||||||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGIIISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              ||||||||||:|||||||||||||||||||||||||||||||||||||||||| ||||||
Db        181 GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN 240

Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
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Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


RESULT 7
US-08-870-511-2
; Sequence 2, Application US/08870511
; Patent No. 6287763
; GENERAL INFORMATION:
;  APPLICANT: Lee, Frank
;  APPLICANT: Huszar, Dennis
;  APPLICANT: Gu, Wei
;  TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
;  TITLE OF INVENTION: REGULATION OF BODY WEIGHT
;  FILE REFERENCE: 7853-083
;  CURRENT APPLICATION NUMBER: US/08/870,511
;  CURRENT FILING DATE: 1997-06-06
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 332
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-08-870-511-2

  Query Match             94.9%;  Score 1638.5;  DB 3;  Length 332;
  Best Local Similarity   95.5%;  Pred. No. 1.6e-125;
  Matches  317;  Conservative    6;  Mismatches    8;  Indels    1;  Gaps    1;

Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
              :|||   ||||||| |||:|  | ||:||||||| |||||||||||||||||||||||
Db          2 VNST-HRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
              ||||||||||||||||||||||||||||||||||||||||||:|||||||||||||||||
Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIIITLLNSTDTDAQSFTVN 120

Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGIIISCIWAACTVS 180
              ||||||||||||||||||||||||||||||||||||||||||:|||||||||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGIIISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              ||||||||||:|||||||||||||||||||||||||||||||||||||||||| ||||||
Db        181 GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN 240

Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
              ||||||||||||||||||||||||||||||||
Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


RESULT 8
US-09-384-302A-9
; Sequence 9, Application US/09384302A
; Patent No. 6451543
; GENERAL INFORMATION:
;  APPLICANT: Kochendoerfer, Gerd G
;  APPLICANT:  Hunter, Christie L
;  APPLICANT:  Kent, Stephen B.H.
;  APPLICANT:  Botti, Paolo
;  APPLICANT:  Gryphon Sciences
;  TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis
;  TITLE OF INVENTION:  of Membrane Polypeptides
;  FILE REFERENCE: grfn-028/02WO
;  CURRENT APPLICATION NUMBER: US/09/384,302A
;  CURRENT FILING DATE:  1999-08-26
;  PRIOR APPLICATION NUMBER: 09/144,964
;  PRIOR FILING DATE: 1998-08-31
;  PRIOR APPLICATION NUMBER: 09/263,971
;  PRIOR FILING DATE: 1999-03-05
;  NUMBER OF SEQ ID NOS: 30
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;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
;   LENGTH: 332
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-09-384-302A-9

  Query Match             94.9%;  Score 1638.5;  DB 4;  Length 332;
  Best Local Similarity   95.5%;  Pred. No. 1.6e-125;
  Matches  317;  Conservative    6;  Mismatches    8;  Indels    1;  Gaps    1;

Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
              :|||   ||||||| ||||:|  | ||:||||||| |||||||||||||||||||||||
Db          2 VNST-HRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
              ||||||||||||||||||||||||||||||||||||||||:||||||||||||||||||
Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIIITLLNSTDTDAQSFTVN 120

Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
              ||||||||||||||||||||||||||||||||||||||||:|||||||||||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGIIISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              ||||||||||:|||||||||||||||||||||||||||||||||||||||||| ||||||
Db        181 GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN 240

Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
              ||||||||||||||||||||||||||||||||
Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


RESULT 9
US-08-662-560-2
; Sequence 2, Application US/08662560
; Patent No. 5908609
;  GENERAL INFORMATION:
;    APPLICANT:  Lee, Frank
;    APPLICANT:  Huszar, Dennis
;    APPLICANT:  Wei, Gu
;    TITLE OF INVENTION:  SCREENING METHODS FOR COMPOUNDS
;    TITLE OF INVENTION:  USEFUL IN THE REGULATION OF BODY WEIGHT
;    NUMBER OF SEQUENCES:  2
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  NY
;      COUNTRY:  USA
;      ZIP:  10036/2711
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/662,560
;      FILING DATE:  10-JUN-1996
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Coruzzi, Laura A
;      REGISTRATION NUMBER:  30,742
;      REFERENCE/DOCKET NUMBER:  7853-060
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-790-9090
;      TELEFAX:  212-869=8864
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  332 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FRAGMENT TYPE:  internal
US-08-662-560-2

  Query Match             94.6%;  Score 1632.5;  DB 2;  Length 332;
  Best Local Similarity   95.2%;  Pred. No. 5.1e-125;
  Matches  316;  Conservative    6;  Mismatches    9;  Indels    1;  Gaps    1;

Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
              :|||   ||||||| ||||:|  | ||:||||||| |||||||||||||||||||||||
Db          2 VNST-HRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
              ||||||||||||||||||||||||||||||||||||||||||:|||||||||||||||||
Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIIITLLNSTDTDAQSFTVN 120

Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
              ||||||||||||||||||||||||||||||||||||||||:|||| ||||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGISISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              ||||||||||:|||||||||||||||||||||||||||||||||||||||||| ||||||
Db        181 GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN 240

Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
              ||||||||||||||||||||||||||||||||
Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


RESULT 10
US-08-780-749A-6
; Sequence 6, Application US/08780749A
; Patent No. 5932779
;  GENERAL INFORMATION:
;    APPLICANT:  Lee, Frank
;    APPLICANT:  Huszar, Dennis
;    APPLICANT:  Gu, Wei
;    TITLE OF INVENTION:  SCREENING METHODS FOR COMPOUNDS
;    TITLE OF INVENTION:  USEFUL IN THE REGULATION OF BODY WEIGHT
;    NUMBER OF SEQUENCES:  10
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds LLP
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036/2711
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/780,749A
;      FILING DATE:  08-JAN-1997
;      CLASSIFICATION:  800
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Laura A. Coruzzi
;      REGISTRATION NUMBER:  30,742
;      REFERENCE/DOCKET NUMBER:  7853-064
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;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 790-9090
;      TELEFAX:  (212) 869-8864/9741
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  332 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  protein
US-08-780-749A-6

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  Best Local Similarity  95.2%;  Pred. No. 5.1e-125;
  Matches  316;  Conservative    6;  Mismatches    9;  Indels    1;  Gaps    1;

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RESULT 11
US-08-870-511-6
; Sequence 6, Application US/08870511
; Patent No. 6287763
; GENERAL INFORMATION:
;  APPLICANT: Lee, Frank
;  APPLICANT: Huszar, Dennis
;  APPLICANT: Gu, Wei
;  TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
;  TITLE OF INVENTION: REGULATION OF BODY WEIGHT
;  FILE REFERENCE: 7853-083
;  CURRENT APPLICATION NUMBER: US/08/870,511
;  CURRENT FILING DATE: 1997-06-06
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
;   LENGTH: 332
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-08-870-511-6

  Query Match           94.6%;  Score 1632.5;  DB 3;  Length 332;
  Best Local Similarity  95.2%;  Pred. No. 5.1e-125;
  Matches  316;  Conservative    6;  Mismatches    9;  Indels    1;  Gaps    1;

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Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
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Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


RESULT 12
US-08-870-511-8
; Sequence 8, Application US/08870511
; Patent No. 6287763
; GENERAL INFORMATION:
;  APPLICANT: Lee, Frank
;  APPLICANT: Huszar, Dennis
;  APPLICANT: Gu, Wei
;  TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
;  TITLE OF INVENTION: REGULATION OF BODY WEIGHT
;  FILE REFERENCE: 7853-083
;  CURRENT APPLICATION NUMBER: US/08/870,511
;  CURRENT FILING DATE: 1997-06-06
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
;   LENGTH: 332
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-08-870-511-8

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  Best Local Similarity  94.9%;  Pred. No. 1.3e-124;
  Matches  315;  Conservative    6;  Mismatches   10;  Indels    1;  Gaps    1;

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Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


RESULT 13
US-08-870-511-10
; Sequence 10, Application US/08870511
; Patent No. 6287763
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; GENERAL INFORMATION:
;  APPLICANT: Lee, Frank
;  APPLICANT: Huszar, Dennis
;  APPLICANT: Gu, Wei
;  TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
;  TITLE OF INVENTION: REGULATION OF BODY WEIGHT
;  FILE REFERENCE: 7853-083
;  CURRENT APPLICATION NUMBER: US/08/870,511
;  CURRENT FILING DATE: 1997-06-06
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 332
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-08-870-511-10

  Query Match             94.2%;  Score 1626.5;  DB 3;  Length 332;
  Best Local Similarity   94.9%;  Pred. No. 1.6e-124;
  Matches  315;  Conservative    6;  Mismatches   10;  Indels    1;  Gaps    1;

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Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
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RESULT 14
US-08-870-511-12
; Sequence 12, Application US/08870511
; Patent No. 6287763
; GENERAL INFORMATION:
;  APPLICANT: Lee, Frank
;  APPLICANT: Huszar, Dennis
;  APPLICANT: Gu, Wei
;  TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
;  TITLE OF INVENTION: REGULATION OF BODY WEIGHT
;  FILE REFERENCE: 7853-083
;  CURRENT APPLICATION NUMBER: US/08/870,511
;  CURRENT FILING DATE: 1997-06-06
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 332
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-08-870-511-12

  Query Match             94.2%;  Score 1626.5;  DB 3;  Length 332;
  Best Local Similarity   94.9%;  Pred. No. 1.6e-124;
  Matches  315;  Conservative    6;  Mismatches   10;  Indels    1;  Gaps    1;

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RESULT 15
US-09-831-206-2
; Sequence 2, Application US/09831206
; Patent No. 6573070
; GENERAL INFORMATION:
;  APPLICANT: MacNeil, Douglas J.
;  APPLICANT:  Weinberg, David H.
;  APPLICANT:  Van der Ploeg, Leonardus H. T.
;  TITLE OF INVENTION: DNA MOLECULES ENCODING THE MELANOCORTIN
;  TITLE OF INVENTION:  4 RECEPTOR PROTEIN FROM RHESUS MONKEY
;  FILE REFERENCE: 20190P
;  CURRENT APPLICATION NUMBER: US/09/831,206
;  CURRENT FILING DATE:  2001-06-28
;  PRIOR APPLICATION NUMBER: PCT/US99/25767
;  PRIOR FILING DATE: 1999-11-05
;  PRIOR APPLICATION NUMBER: 60/107,721
;  PRIOR FILING DATE: 1998-11-09
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 332
;   TYPE: PRT
;   ORGANISM: rhesus monkey (Macaca mulatta)
US-09-831-206-2

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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: August 3, 2005, 14:34:12 ; Search time 159 Seconds
(without alignments)
813.521 Million cell updates/sec

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Perfect score: 1726
Sequence: 1 MNSTLQHGMHTSLHFWNRST.....FKEIICCYPLGGLCDLSSRY 332

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Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 1745140

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1726	100.0	332	10	US-09-884-211A-4	Sequence 4, Appli
2	1685	97.6	332	10	US-09-884-211A-3	Sequence 3, Appli
3	1638.5	94.9	332	14	US-10-207-330-9	Sequence 9, Appli
4	1638.5	94.9	332	14	US-10-225-567A-158	Sequence 158, App
5	1638.5	94.9	332	14	US-10-318-661-27	Sequence 27, Appl
6	1632.5	94.6	332	10	US-09-876-252-74	Sequence 74, Appl
7	1632.5	94.6	332	14	US-10-226-594-4	Sequence 4, Appli
8	1632.5	94.6	332	14	US-10-413-752-2	Sequence 2, Appli
9	1632.5	94.6	332	15	US-10-417-820A-74	Sequence 74, Appl
10	1632.5	94.6	332	16	US-10-723-955-74	Sequence 74, Appl
11	1627.5	94.3	332	10	US-09-876-252-136	Sequence 136, App
12	1627.5	94.3	332	15	US-10-417-820A-136	Sequence 136, App
13	1627.5	94.3	332	16	US-10-723-955-136	Sequence 136, App
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15	1620.5	93.9	332	14	US-10-413-752-6	Sequence 6, Appli
16	1615.5	93.6	332	14	US-10-207-330-6	Sequence 6, Appli
17	1592.5	92.3	332	14	US-10-288-160-16	Sequence 16, Appl
18	1592.5	92.3	332	14	US-10-074-754-2	Sequence 2, Appli
19	1590	92.1	332	10	US-09-910-180-2	Sequence 2, Appli
20	1463	84.8	311	16	US-10-834-485-3	Sequence 3, Appli
21	1463	84.8	311	16	US-10-816-304-3	Sequence 3, Appli
22	1405	81.4	293	14	US-10-207-330-8	Sequence 8, Appli
23	1257	72.8	248	16	US-10-834-485-4	Sequence 4, Appli
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26	1026.5	59.5	325	14	US-10-288-160-18	Sequence 18, Appl
27	1025.5	59.4	325	14	US-10-225-567A-160	Sequence 160, App
28	1025.5	59.4	325	15	US-10-369-022-40	Sequence 40, Appl
29	1003.5	58.1	325	13	US-10-052-545-16	Sequence 16, Appl
30	994	57.6	323	9	US-09-903-395-2	Sequence 2, Appli
31	994	57.6	323	17	US-10-603-249-2	Sequence 2, Appli
32	984.5	57.0	360	14	US-10-226-594-3	Sequence 3, Appli
33	982.5	56.9	360	17	US-10-741-600-870	Sequence 870, App
34	981.5	56.9	360	14	US-10-225-567A-156	Sequence 156, App
35	981.5	56.9	360	14	US-10-413-752-1	Sequence 1, Appli
36	981.5	56.9	360	17	US-10-603-249-4	Sequence 4, Appli
37	976.5	56.6	323	10	US-09-826-509-523	Sequence 523, App
38	976.5	56.6	323	17	US-10-925-095-523	Sequence 523, App
39	961	55.7	323	14	US-10-288-160-12	Sequence 12, Appl
40	758.5	43.9	317	14	US-10-226-594-1	Sequence 1, Appli
41	754.5	43.7	317	14	US-10-225-567A-162	Sequence 162, App
42	754.5	43.7	317	15	US-10-353-690-60	Sequence 60, Appl
43	754.5	43.7	317	15	US-10-164-717-6	Sequence 6, Appli
44	754.5	43.7	317	16	US-10-322-281-166	Sequence 166, App
45	754.5	43.7	317	17	US-10-741-600-1254	Sequence 1254, Ap

ALIGNMENTS

RESULT 1
US-09-884-211A-4
; Sequence 4, Application US/09884211A
; Publication No. US20030032791A1
; GENERAL INFORMATION:
; APPLICANT: Alan et, al.
; TITLE OF INVENTION: NOVEL MELANOCORTIN-4 RECEPTOR SEQUENCES AND
; TITLE OF INVENTION: SCREENING ASSAYS TO IDENTIFY COMPOUNDS USEFUL
; TITLE OF INVENTION: IN REGULATING ANIMAL APPETITE AND METABOLIC RATE
; FILE REFERENCE: PC10743A
; CURRENT APPLICATION NUMBER: US/09/884,211A
; CURRENT FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: 60/213,909
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Canine MC4R protein Sequence
US-09-884-211A-4

Query Match 100.0%; Score 1726; DB 10; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.7e-157;
Matches 332; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
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Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240

Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
              ||||||||||||||||||||||||||||||||
Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


RESULT 2
US-09-884-211A-3
; Sequence 3, Application US/09884211A
; Publication No. US20030032791A1
; GENERAL INFORMATION:
;  APPLICANT: Alan et, al.
;  TITLE OF INVENTION: NOVEL MELANOCORTIN-4 RECEPTOR SEQUENCES AND
;  TITLE OF INVENTION:  SCREENING ASSAYS TO IDENTIFY COMPOUNDS USEFUL
;  TITLE OF INVENTION:  IN REGULATING ANIMAL APPETITE AND METABOLIC RATE
;  FILE REFERENCE: PC10743A
;  CURRENT APPLICATION NUMBER: US/09/884,211A
;  CURRENT FILING DATE:  2000-06-26
;  PRIOR APPLICATION NUMBER: 60/213,909
;  PRIOR FILING DATE: 2000-06-26
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
;   LENGTH: 332
;   TYPE: PRT
;   ORGANISM: Feline MC4R protein Sequence
US-09-884-211A-3

  Query Match             97.6%;  Score 1685;  DB 10;  Length 332;
  Best Local Similarity   97.6%;  Pred. No. 1.5e-153;
  Matches  324;  Conservative    3;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
              ||||  |||||||||||||| | ||:||||||| ||||||||||||||||||||||||||
Db          1 MNSTHHHGMHTSLHFWNRSTYGPHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120

Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              |:||||||||:||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 GVLFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240

Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
              ||||||||||||||||||||||||||||||||
Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


RESULT 3
US-10-207-330-9
; Sequence 9, Application US/10207330
; Publication No. US20030018169A1
; GENERAL INFORMATION:
;  APPLICANT: Kochendoerfer, Gerd G
;  APPLICANT:  Hunter, Christie L
;  APPLICANT:  Kent, Stephen B.H.
;  APPLICANT:  Botti, Paolo
;  APPLICANT:  Gryphon Sciences
;  TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis
;  TITLE OF INVENTION:  of Membrane Polypeptides
;  FILE REFERENCE: grfn-028/02WO
;  CURRENT APPLICATION NUMBER: US/10/207,330
;  CURRENT FILING DATE:  2002-07-30
;  PRIOR APPLICATION NUMBER: US/09/384,302
;  PRIOR FILING DATE: 1999-08-26
;  PRIOR APPLICATION NUMBER: 09/144,964
;  PRIOR FILING DATE: 1998-08-31
;  PRIOR APPLICATION NUMBER: 09/263,971
;  PRIOR FILING DATE: 1999-03-05
;  NUMBER OF SEQ ID NOS: 30
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
;   LENGTH: 332
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-10-207-330-9

  Query Match             94.9%;  Score 1638.5;  DB 14;  Length 332;
  Best Local Similarity   95.5%;  Pred. No. 4.4e-149;
  Matches  317;  Conservative    6;  Mismatches    8;  Indels    1;  Gaps    1;

Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
              :|||   ||||||| ||||:|  | ||:||||||| ||||||||||||||||||||||
Db          2 VNST-HRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
              ||||||||||||||||||||||||||||||||||||||||||||:|||||||||||||||||
Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIIITLLNSTDTDAQSFTVN 120

Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
              ||||||||||||||||||||||||||||||||||||||||||||||:|||||||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGIIISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              ||||||||||:|||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN 240

Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
              ||||||||||||||||||||||||||||||||
Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


RESULT 4
US-10-225-567A-158
; Sequence 158, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
;  APPLICANT: LifeSpan Biosciences
;  APPLICANT:  Brown, Joseph P.
;  APPLICANT:  Burmer, Glenna C.
;  APPLICANT:  Roush, Christine L.
;  TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
;  FILE REFERENCE: 1920-4-4
;  CURRENT APPLICATION NUMBER: US/10/225,567A
;  CURRENT FILING DATE:  2001-12-19
;  PRIOR APPLICATION NUMBER: 60/257,144
;  PRIOR FILING DATE: 2000-12-19
;  NUMBER OF SEQ ID NOS: 2292
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 158
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;   LENGTH: 332
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-225-567A-158

  Query Match             94.9%;  Score 1638.5;  DB 14;  Length 332;
  Best Local Similarity   95.5%;  Pred. No. 4.4e-149;
  Matches  317;  Conservative    6;  Mismatches    8;  Indels    1;  Gaps    1;

Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
              :|||   ||||||| ||||:|  | ||:||||||| ||||||||||||||||||||||
Db          2 VNST-HRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
              ||||||||||||||||||||||||||||||||||||||:||||||||||||||||||||
Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIIITLLNSTDTDAQSFTVN 120

Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
              ||||||||||||||||||||||||||||||||||||||||||:||||||||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGIIISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              ||||||||||:|||||||||||||||||||||||||||||||||||||||| ||||||
Db        181 GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN 240

Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
              ||||||||||||||||||||||||||||||||
Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


RESULT 5
US-10-318-661-27
; Sequence 27, Application US/10318661
; Publication No. US20030167476A1
; GENERAL INFORMATION:
;  APPLICANT: Conklin, Bruce R.
;  TITLE OF INVENTION: Selective Target Cell Activation By
;  TITLE OF INVENTION:  Expression of A G Protein-Coupled Receptor Activated
;  TITLE OF INVENTION:  Superiorly By Synthetic Ligand
;  FILE REFERENCE: UCAL-049CIP2
;  CURRENT APPLICATION NUMBER: US/10/318,661
;  CURRENT FILING DATE:  2003-05-05
;  PRIOR APPLICATION NUMBER: US 09/341,446
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US97/05334
;  PRIOR FILING DATE: 1997-03-25
;  PRIOR APPLICATION NUMBER: US 08/622,348
;  PRIOR FILING DATE: 1996-03-26
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 27
;   LENGTH: 332
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-318-661-27

  Query Match             94.9%;  Score 1638.5;  DB 14;  Length 332;
  Best Local Similarity   95.5%;  Pred. No. 4.4e-149;
  Matches  317;  Conservative    6;  Mismatches    8;  Indels    1;  Gaps    1;

Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
              :|||   ||||||| ||||:|  | ||:||||||| ||||||||||||||||||||||
Db          2 VNST-HRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
              ||||||||||||||||||||||||||||||||||||||:||||||||||||||||||||
Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIIITLLNSTDTDAQSFTVN 120

Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
              ||||||||||||||||||||||||||||||||||||||||||:||||||||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGIIISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              ||||||||||:|||||||||||||||||||||||||||||||||||||||| ||||||
Db        181 GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN 240

Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
              ||||||||||||||||||||||||||||||||
Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


RESULT 6
US-09-876-252-74
; Sequence 74, Application US/09876252
; Publication No. US20030018182A1
; GENERAL INFORMATION:
;  APPLICANT: Behan, Dominic P.
;  APPLICANT:  Lehmann-Bruinsma, Karin
;  APPLICANT:  Chalmers, Derek T.
;  APPLICANT:  Lowitz, Kevin P.
;  APPLICANT:  Lin, I-Lin
;  APPLICANT:  Dang, Huong T.
;  APPLICANT:  Chen, Ruoping
;  APPLICANT:  Liaw, Chen W.
;  TITLE OF INVENTION: Non-Endogenous Constitively Activated Human G Protein Coupled Rec
;  FILE REFERENCE: AREN-0054
;  CURRENT APPLICATION NUMBER: US/09/876,252
;  CURRENT FILING DATE:  2001-06-07
;  PRIOR APPLICATION NUMBER: 09/416,760
;  PRIOR FILING DATE: 1999-10-12
;  PRIOR APPLICATION NUMBER: 09/170,496
;  PRIOR FILING DATE: 1998-10-13
;  PRIOR APPLICATION NUMBER: 60/110,060
;  PRIOR FILING DATE: 1998-11-27
;  PRIOR APPLICATION NUMBER: 60/120,416
;  PRIOR FILING DATE: 1999-02-16
;  PRIOR APPLICATION NUMBER: 60/121,852
;  PRIOR FILING DATE: 1999-02-26
;  PRIOR APPLICATION NUMBER: 60/109,213
;  PRIOR FILING DATE: 1998-11-20
;  PRIOR APPLICATION NUMBER: 60/123,944
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,945
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,948
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,951
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,946
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,949
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/152,524
;  PRIOR FILING DATE: 1999-09-03
;  PRIOR APPLICATION NUMBER: 60/151,114
;  PRIOR FILING DATE: 1999-08-27
;  PRIOR APPLICATION NUMBER: 60/108,029
;  PRIOR FILING DATE: 1998-11-12
;  PRIOR APPLICATION NUMBER: 60/136,436
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 60/136,439
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 60/136,567
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 60/137,127
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 60/137,131
;  PRIOR FILING DATE: 1999-05-28
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;  PRIOR APPLICATION NUMBER: 60/141,448
;  PRIOR FILING DATE: 1999-06-29
;  PRIOR APPLICATION NUMBER: 60/136,437
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 60/156,555
;  PRIOR FILING DATE: 1999-09-29
;  PRIOR APPLICATION NUMBER: 60/156,634
;  PRIOR FILING DATE: 1999-09-29
;  PRIOR APPLICATION NUMBER: 60/156,653
;  PRIOR FILING DATE: 1999-09-29
;  PRIOR APPLICATION NUMBER: 60/157,280
;  PRIOR FILING DATE: 1999-10-01
;  PRIOR APPLICATION NUMBER: 60/157,294
;  PRIOR FILING DATE: 1999-10-01
;  PRIOR APPLICATION NUMBER: 60/157,281
;  PRIOR FILING DATE: 1999-10-01
;  PRIOR APPLICATION NUMBER: 60/157,282
;  PRIOR FILING DATE: 1999-10-01
;  PRIOR APPLICATION NUMBER: 60/156,633
;  PRIOR FILING DATE: 1999-09-29
;  NUMBER OF SEQ ID NOS: 146
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 74
;   LENGTH: 332
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-876-252-74

  Query Match             94.6%;  Score 1632.5;  DB 10;  Length 332;
  Best Local Similarity   95.2%;  Pred. No. 1.7e-148;
  Matches  316;  Conservative    6;  Mismatches    9;  Indels    1;  Gaps    1;

Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
              :|||   ||||||| ||||:|   | ||:||||||| |||||||||||||||||||||||
Db          2 VNST-HRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
              ||||||||||||||||||||||||||||||||||||||||:||||||||||||||||||
Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIIITLLNSTDTDAQSFTVN 120

Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
              |||||||||||||||||||||||||||||||||||||||:|||| ||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGISISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              |||||||||:|||||||||||||||||||||||||||||||||||||||| ||||||
Db        181 GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN 240

Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
              ||||||||||||||||||||||||||||||||
Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


RESULT 7
US-10-226-594-4
; Sequence 4, Application US/10226594
; Publication No. US20030017966A1
; GENERAL INFORMATION:
;  APPLICANT: Duman, Ronald
;  TITLE OF INVENTION: MC-4R AS A TARGET FOR THE IDENTIFICATION OF COMPOUNDS
;  TITLE OF INVENTION:  USED TO TREAT DRUG ADDICTION
;  FILE REFERENCE: 07334-101001
;  CURRENT APPLICATION NUMBER: US/10/226,594
;  CURRENT FILING DATE:  2002-08-23
;  PRIOR APPLICATION NUMBER: US/09/385,763
;  PRIOR FILING DATE: 1999-08-30
;  PRIOR APPLICATION NUMBER: US 60/099,104
;  PRIOR FILING DATE: 1998-09-03
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
;   LENGTH: 332
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-226-594-4

  Query Match             94.6%;  Score 1632.5;  DB 14;  Length 332;
  Best Local Similarity   95.2%;  Pred. No. 1.7e-148;
  Matches  316;  Conservative    6;  Mismatches    9;  Indels    1;  Gaps    1;

Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
              :|||   ||||||| ||||:|   | ||:||||||| |||||||||||||||||||||||
Db          2 VNST-HRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
              ||||||||||||||||||||||||||||||||||||||||:|||||||||||||||||||
Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIIITLLNSTDTDAQSFTVN 120

Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
              |||||||||||||||||||||||||||||||||||||||:|||| ||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGISISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              |||||||||:|||||||||||||||||||||||||||||||||||||||| ||||||
Db        181 GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN 240

Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
              ||||||||||||||||||||||||||||||||
Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


RESULT 8
US-10-413-752-2
; Sequence 2, Application US/10413752
; Publication No. US20030171295A1
; GENERAL INFORMATION:
;  APPLICANT: Frank Lee
;  APPLICANT:  Dennis Huszar
;  APPLICANT:  Wei Gu
;  TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL
;  TITLE OF INVENTION:  IN THE REGULATION OF BODY WEIGHT
;  FILE REFERENCE: 7853-145
;  CURRENT APPLICATION NUMBER: US/10/413,752
;  CURRENT FILING DATE:  2003-04-14
;  PRIOR APPLICATION NUMBER: US/09/322,695
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 08/662,560
;  PRIOR FILING DATE: 1996-06-10
;  NUMBER OF SEQ ID NOS: 12
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 2
;   LENGTH: 332
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-413-752-2

  Query Match             94.6%;  Score 1632.5;  DB 14;  Length 332;
  Best Local Similarity   95.2%;  Pred. No. 1.7e-148;
  Matches  316;  Conservative    6;  Mismatches    9;  Indels    1;  Gaps    1;

Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
              :|||   ||||||| ||||:|   | ||:||||||| |||||||||||||||||||||||
Db          2 VNST-HRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
              ||||||||||||||||||||||||||||||||||||||||:|||||||||||||||||||
Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIIITLLNSTDTDAQSFTVN 120
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Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
              ||||||||||||||||||||||||||||||||||||||||||||||:|||| ||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGISISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              ||||||||||:|||||||||||||||||||||||||||||||||||||||||| ||||||
Db        181 GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN 240

Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
              ||||||||||||||||||||||||||||||||
Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
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RESULT 9
US-10-417-820A-74
; Sequence 74, Application US/10417820A
; Publication No. US20030229216A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Ruoping
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lowitz, Kevin
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Behan, Dominic P.
; TITLE OF INVENTION: Constitutively Activated Human G Protein Coupled
; TITLE OF INVENTION: Receptors
; FILE REFERENCE: 7.US28.CON
; CURRENT APPLICATION NUMBER: US/10/417,820A
; CURRENT FILING DATE: 2003-04-16
; PRIOR APPLICATION NUMBER: 09/416,760
; PRIOR FILING DATE: 1999-10-12
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; PRIOR APPLICATION NUMBER: 60/110,060
; PRIOR FILING DATE: 1998-11-27
; PRIOR APPLICATION NUMBER: 60/120,416
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/121,852
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 60/109,213
; PRIOR FILING DATE: 1998-11-20
; PRIOR APPLICATION NUMBER: 60/123,944
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,945
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,948
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,951
; PRIOR FILING DATE: 1999-03-12
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 155
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 74
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-417-820A-74

Query Match 94.6%; Score 1632.5; DB 15; Length 332;
Best Local Similarity 95.2%; Pred. No. 1.7e-148;
Matches 316; Conservative 6; Mismatches 9; Indels 1; Gaps 1;

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Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
              :|||   ||||||| ||||:|  | ||:||||||| |||||||||||||||||||||||
Db          2 VNST-HRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
              ||||||||||||||||||||||||||||||||||||||||||:||||||||||||||||||
Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIIITLLNSTDTDAQSFTVN 120
```

```
Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
              ||||||||||||||||||||||||||||||||||||||||||||||:|||| ||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGISISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              ||||||||||:|||||||||||||||||||||||||||||||||||||||||| ||||||
Db        181 GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN 240

Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
              ||||||||||||||||||||||||||||||||
Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
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RESULT 10
US-10-723-955-74
; Sequence 74, Application US/10723955
; Publication No. US20040110238A1
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Lin, I-Lin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lehman-Bruinsma, Karin
; APPLICANT: Lowitz, Kevin P.
; APPLICANT: Dang, Huong T.
; APPLICANT: Chen, Ruoping
; APPLICANT: Gore, Martin
; APPLICANT: White, Carol
; TITLE OF INVENTION: Constitutively Activated Human G Protein Coupled
; TITLE OF INVENTION: Receptors
; FILE REFERENCE: 7.US29.CON
; CURRENT APPLICATION NUMBER: US/10/723,955
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: 10/417,820
; PRIOR FILING DATE: 2003-4-16
; PRIOR APPLICATION NUMBER: 09/416,760
; PRIOR FILING DATE: 1999-10-12
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; PRIOR APPLICATION NUMBER: 60/110,060
; PRIOR FILING DATE: 1998-11-27
; PRIOR APPLICATION NUMBER: 60/120,416
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/121,852
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 60/109,213
; PRIOR FILING DATE: 1998-11-20
; PRIOR APPLICATION NUMBER: 60/123,944
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,945
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,948
; PRIOR FILING DATE: 1999-03-12
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 74
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-723-955-74

Query Match 94.6%; Score 1632.5; DB 16; Length 332;
Best Local Similarity 95.2%; Pred. No. 1.7e-148;
Matches 316; Conservative 6; Mismatches 9; Indels 1; Gaps 1;

```
Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
              :|||   ||||||| ||||:|  | ||:||||||| |||||||||||||||||||||||
Db          2 VNST-HRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60
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```
Qy          61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
               ||||||||||||||||||||||||||||||||||||||||||||:||||||||||||||||||
Db          61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIIITLLNSTDTDAQSFTVN 120

Qy         121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
               ||||||||||||||||||||||||||||||||||||||||:|||| ||||||||||||
Db         121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGISISCIWAACTVS 180

Qy         181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
               ||||||||||:|||||||||||||||||||||||||||||||||||||||||| ||||||
Db         181 GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN 240

Qy         241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy         301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
               ||||||||||||||||||||||||||||||||
Db         301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


RESULT 11
US-09-876-252-136
; Sequence 136, Application US/09876252
; Publication No. US20030018182A1
; GENERAL INFORMATION:
;  APPLICANT: Behan, Dominic P.
;  APPLICANT:  Lehmann-Bruinsma, Karin
;  APPLICANT:  Chalmers, Derek T.
;  APPLICANT:  Lowitz, Kevin P.
;  APPLICANT:  Lin, I-Lin
;  APPLICANT:  Dang, Huong T.
;  APPLICANT:  Chen, Ruoping
;  APPLICANT:  Liaw, Chen W.
;  TITLE OF INVENTION: Non-Endogenous Constitively Activated Human G Protein Coupled Rec
;  FILE REFERENCE: AREN-0054
;  CURRENT APPLICATION NUMBER: US/09/876,252
;  CURRENT FILING DATE:  2001-06-07
;  PRIOR APPLICATION NUMBER: 09/416,760
;  PRIOR FILING DATE: 1999-10-12
;  PRIOR APPLICATION NUMBER: 09/170,496
;  PRIOR FILING DATE: 1998-10-13
;  PRIOR APPLICATION NUMBER: 60/110,060
;  PRIOR FILING DATE: 1998-11-27
;  PRIOR APPLICATION NUMBER: 60/120,416
;  PRIOR FILING DATE: 1999-02-16
;  PRIOR APPLICATION NUMBER: 60/121,852
;  PRIOR FILING DATE: 1999-02-26
;  PRIOR APPLICATION NUMBER: 60/109,213
;  PRIOR FILING DATE: 1998-11-20
;  PRIOR APPLICATION NUMBER: 60/123,944
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,945
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,948
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,951
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,946
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,949
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/152,524
;  PRIOR FILING DATE: 1999-09-03
;  PRIOR APPLICATION NUMBER: 60/151,114
;  PRIOR FILING DATE: 1999-08-27
;  PRIOR APPLICATION NUMBER: 60/108,029
;  PRIOR FILING DATE: 1998-11-12
;  PRIOR APPLICATION NUMBER: 60/136,436
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 60/136,439
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 60/136,567
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 60/137,127
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 60/137,131
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 60/141,448
;  PRIOR FILING DATE: 1999-06-29
;  PRIOR APPLICATION NUMBER: 60/136,437
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 60/156,555
;  PRIOR FILING DATE: 1999-09-29
;  PRIOR APPLICATION NUMBER: 60/156,634
;  PRIOR FILING DATE: 1999-09-29
;  PRIOR APPLICATION NUMBER: 60/156,653
;  PRIOR FILING DATE: 1999-09-29
;  PRIOR APPLICATION NUMBER: 60/157,280
;  PRIOR FILING DATE: 1999-10-01
;  PRIOR APPLICATION NUMBER: 60/157,294
;  PRIOR FILING DATE: 1999-10-01
;  PRIOR APPLICATION NUMBER: 60/157,281
;  PRIOR FILING DATE: 1999-10-01
;  PRIOR APPLICATION NUMBER: 60/157,282
;  PRIOR FILING DATE: 1999-10-01
;  PRIOR APPLICATION NUMBER: 60/156,633
;  PRIOR FILING DATE: 1999-09-29
;  NUMBER OF SEQ ID NOS: 146
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 136
;   LENGTH: 332
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-876-252-136

  Query Match             94.3%;  Score 1627.5;  DB 10;  Length 332;
  Best Local Similarity   94.9%;  Pred. No. 5.1e-148;
  Matches  315;  Conservative    6;  Mismatches   10;  Indels    1;  Gaps    1;

Qy           1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
               :|||   ||||||| ||||:|  | ||:||||||| ||||||||||||||||||||||
Db           2 VNST-HRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy          61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
               ||||||||||||||||||||||||||||||||||||||||:||||||||||||||||||
Db          61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIIITLLNSTDTDAQSFTVN 120

Qy         121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
               ||||||||||||||||||||||||||||||||||||||||:|||| ||||||||||||
Db         121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGISISCIWAACTVS 180

Qy         181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
               ||||||||||:|||||||||||||||||||||||||||||||||||||||||| ||||||
Db         181 GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN 240

Qy         241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
               ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         241 MKGKITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy         301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
               ||||||||||||||||||||||||||||||||
Db         301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


RESULT 12
US-10-417-820A-136
; Sequence 136, Application US/10417820A
; Publication No. US20030229216A1
; GENERAL INFORMATION:
;  APPLICANT: Chen, Ruoping
;  APPLICANT:  Liaw, Chen W.
;  APPLICANT:  Lowitz, Kevin
;  APPLICANT:  Chalmers, Derek T.
;  APPLICANT:  Behan, Dominic P.
```

```
;  TITLE OF INVENTION: Constitutively Activated Human G Protein Coupled
;  TITLE OF INVENTION:  Receptors
;  FILE REFERENCE: 7.US28.CON
;  CURRENT APPLICATION NUMBER: US/10/417,820A
;  CURRENT FILING DATE:  2003-04-16
;  PRIOR APPLICATION NUMBER: 09/416,760
;  PRIOR FILING DATE: 1999-10-12
;  PRIOR APPLICATION NUMBER: 09/170,496
;  PRIOR FILING DATE: 1998-10-13
;  PRIOR APPLICATION NUMBER: 60/110,060
;  PRIOR FILING DATE: 1998-11-27
;  PRIOR APPLICATION NUMBER: 60/120,416
;  PRIOR FILING DATE: 1999-02-16
;  PRIOR APPLICATION NUMBER: 60/121,852
;  PRIOR FILING DATE: 1999-02-26
;  PRIOR APPLICATION NUMBER: 60/109,213
;  PRIOR FILING DATE: 1998-11-20
;  PRIOR APPLICATION NUMBER: 60/123,944
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,945
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,948
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,951
;  PRIOR FILING DATE: 1999-03-12
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 155
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 136
;   LENGTH: 332
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-417-820A-136

  Query Match             94.3%;  Score 1627.5;  DB 15;  Length 332;
  Best Local Similarity   94.9%;  Pred. No. 5.1e-148;
  Matches  315;  Conservative    6;  Mismatches   10;  Indels    1;  Gaps    1;

Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
              :|||   ||||||| ||||:|  | ||:|||||| ||||||||||||||||||||||||
Db          2 VNST-HRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
              ||||||||||||||||||||||||||||||||||||||||||:||||||||||||||||
Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIIITLLNSTDTDAQSFTVN 120

Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
              ||||||||||||||||||||||||||||||||||||||||||:|||| ||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGISISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              ||||||||||:|||||||||||||||||||||||||||||||||||||||| ||||||
Db        181 GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN 240

Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 MKGKITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
              ||||||||||||||||||||||||||||||||
Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


RESULT 13
US-10-723-955-136
; Sequence 136, Application US/10723955
; Publication No. US20040110238A1
; GENERAL INFORMATION:
;  APPLICANT: Behan, Dominic P.
;  APPLICANT:  Chalmers, Derek T.
;  APPLICANT:  Lin, I-Lin
;  APPLICANT:  Liaw, Chen W.
;  APPLICANT:  Lehman-Bruinsma, Karin
;  APPLICANT:  Lowitz, Kevin P.
;  APPLICANT:  Dang, Huong T.
;  APPLICANT:  Chen, Ruoping
;  APPLICANT:  Gore, Martin
;  APPLICANT:  White, Carol
;  TITLE OF INVENTION: Constitutively Activated Human G Protein Coupled
;  TITLE OF INVENTION:  Receptors
;  FILE REFERENCE: 7.US29.CON
;  CURRENT APPLICATION NUMBER: US/10/723,955
;  CURRENT FILING DATE:  2003-11-26
;  PRIOR APPLICATION NUMBER: 10/417,820
;  PRIOR FILING DATE: 2003-4-16
;  PRIOR APPLICATION NUMBER: 09/416,760
;  PRIOR FILING DATE: 1999-10-12
;  PRIOR APPLICATION NUMBER: 09/170,496
;  PRIOR FILING DATE: 1998-10-13
;  PRIOR APPLICATION NUMBER: 60/110,060
;  PRIOR FILING DATE: 1998-11-27
;  PRIOR APPLICATION NUMBER: 60/120,416
;  PRIOR FILING DATE: 1999-02-16
;  PRIOR APPLICATION NUMBER: 60/121,852
;  PRIOR FILING DATE: 1999-02-26
;  PRIOR APPLICATION NUMBER: 60/109,213
;  PRIOR FILING DATE: 1998-11-20
;  PRIOR APPLICATION NUMBER: 60/123,944
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,945
;  PRIOR FILING DATE: 1999-03-12
;  PRIOR APPLICATION NUMBER: 60/123,948
;  PRIOR FILING DATE: 1999-03-12
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 148
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 136
;   LENGTH: 332
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-723-955-136

  Query Match             94.3%;  Score 1627.5;  DB 16;  Length 332;
  Best Local Similarity   94.9%;  Pred. No. 5.1e-148;
  Matches  315;  Conservative    6;  Mismatches   10;  Indels    1;  Gaps    1;

Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
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Db          2 VNST-HRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
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Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIIITLLNSTDTDAQSFTVN 120

Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
              ||||||||||||||||||||||||||||||||||||||||||:|||| ||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGISISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              ||||||||||:|||||||||||||||||||||||||||||||||||||||| ||||||
Db        181 GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN 240

Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 MKGKITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
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RESULT 14
US-10-373-355-2
; Sequence 2, Application US/10373355
; Publication No. US20030166009A1
; GENERAL INFORMATION:
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;  APPLICANT: MacNeil, Douglas J.
;  APPLICANT:  Weinberg, David H.
;  APPLICANT:  Van der Ploeg, Leonardus H. T.
;  TITLE OF INVENTION: DNA MOLECULES ENCODING THE MELANOCORTIN
;  TITLE OF INVENTION:  4 RECEPTOR PROTEIN FROM RHESUS MONKEY
;  FILE REFERENCE: 20190P
;  CURRENT APPLICATION NUMBER: US/10/373,355
;  CURRENT FILING DATE:  2003-02-25
;  PRIOR APPLICATION NUMBER: US/09/831,206
;  PRIOR FILING DATE: 2001-06-28
;  PRIOR APPLICATION NUMBER: PCT/US99/25767
;  PRIOR FILING DATE: 1999-11-05
;  PRIOR APPLICATION NUMBER: 60/107,721
;  PRIOR FILING DATE: 1998-11-09
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 332
;   TYPE: PRT
;   ORGANISM: rhesus monkey (Macaca mulatta)
US-10-373-355-2

  Query Match             94.1%;  Score 1624.5;  DB 14;  Length 332;
  Best Local Similarity   94.6%;  Pred. No. 9.9e-148;
  Matches  314;  Conservative    7;  Mismatches   10;  Indels    1;  Gaps    1;

Qy          1 MNSTLQHGMHTSLHFWNRSTYGQHGNATESLGKGYPDGGCYEQLFVSPEVFVTLGVISLL 60
              :|||    ||| ||| ||||::  | ||:||||||| |||||||||||||||||||||||
Db          2 VNST-HRGMHASLHLWNRSSHRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
              |||||||||||||||||||||||||||||||||||||||||||||||||||| ||||||
Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDTQSFTVN 120

Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
              ||||||||||||||||||||||||||||||||||||||||||:|||||||||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVKRVGIIISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              ||||||||||:|||||||||||||||||||||||||||||||||||||||||| ||||||
Db        181 GILFIIYSDSSAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGAIRQGAN 240

Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              |||||||||||||||||||||||||||||||||||||||||||||||||||:||||
Db        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSVIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
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RESULT 15
US-10-413-752-6
; Sequence 6, Application US/10413752
; Publication No. US20030171295A1
; GENERAL INFORMATION:
;  APPLICANT: Frank Lee
;  APPLICANT:  Dennis Huszar
;  APPLICANT:  Wei Gu
;  TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL
;  TITLE OF INVENTION:  IN THE REGULATION OF BODY WEIGHT
;  FILE REFERENCE: 7853-145
;  CURRENT APPLICATION NUMBER: US/10/413,752
;  CURRENT FILING DATE:  2003-04-14
;  PRIOR APPLICATION NUMBER: US/09/322,695
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 08/662,560
;  PRIOR FILING DATE: 1996-06-10
;  NUMBER OF SEQ ID NOS: 12
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 332
;   TYPE: PRT
;   ORGANISM: Rattus sp.
US-10-413-752-6

  Query Match             93.9%;  Score 1620.5;  DB 14;  Length 332;
  Best Local Similarity   94.3%;  Pred. No. 2.4e-147;
  Matches  313;  Conservative    7;  Mismatches   11;  Indels    1;  Gaps    1;

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              :|||    ||||||| |||:|  | ||:||||||| |||||||!||||||||||||||||
Db          2 VNST-HRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLL 60

Qy         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVN 120
              |||||||||||||||||||||||||||||||||||||||||||| :|||||||||||||||||
Db         61 ENILVIVAIAKNKNLHSPMYFFICSLAVADMLVSVSNGSVSIVITLLNSTDTDAQSFTVN 120

Qy        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 IDNVIDSVICSSLLASICSLLSIAVDRYFTIFYALQYHNIMTVRRVGIIISCIWAACTVS 180

Qy        181 GILFIIYSDSTAVIICLITMFFTMLALMASLYVHMFLMARLHIKRIAVLPGTGTIRQGAN 240
              |:|||||||:|||||||||||||| ||||||||||||||||||||||||||| ||||||
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Qy        241 MKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300
              ||| |||||||||||||||||:|||||||||||||||||||||||||||||||||||||
Db        241 MKGTITLTILIGVFVVCWAPFFLHLLFYISCPQNPYCVCFMSHFNLYLILIMCNSIIDPL 300

Qy        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332
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Db        301 IYALRSQELRKTFKEIICCYPLGGLCDLSSRY 332


Search completed: August  3, 2005, 14:49:29
Job time : 165 secs
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